

=> file hcaplus

FILE 'HCAPLUS' ENTERED AT 14:22:02 ON 25 MAR 1998  
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FILE COVERS 1967 - 25 Mar 1998 VOL 128 ISS 13  
 FILE LAST UPDATED: 25 Mar 1998 (980325/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file now supports REGISTRY for direct browsing and searching of all non-structural data from the REGISTRY file. Enter HELP FIRST for more information.

=> d que 117

L1 ( 482)SEA FILE=HCAPLUS ABB=ON (P OR PLASMODIUM) (W) (FLACIPARUM  
 OR OVALE OR VIVAX OR MALARIAE) OR (T OR TREPONEMA) (W) PALL  
 IDIUM  
 L2 ( 5655)SEA FILE=HCAPLUS ABB=ON SMALLPOX (W) VIRUS OR (M OR MYCOBA  
 CTERIUM) (W) TUBERCULOSIS OR ASCARIS (W) LUMBRICOIDES OR DERA  
 TOPHYTE  
 L3 ( 34262)SEA FILE=HCAPLUS ABB=ON HIV OR IMMUNODEFICIEN? OR IMMUNE  
 (W) DEFICIEN?  
 L4 ( 158209)SEA FILE=HCAPLUS ABB=ON (E OR ESCHERICHIA) (W) COLI OR HIS  
 TOPLASMA (W) CAPSULATUM OR HISTOPLASINOSIS OR (B OR BORRELI  
 A) (W) BURGDORFERI OR LIME? (W) DISEASE# OR TYPHOID OR NORWAL  
 K (W) VIRUS OR ROTOVIRUS  
 L5 ( 20489)SEA FILE=HCAPLUS ABB=ON (L3 OR L4) (5A) (INHIBIT? OR TREAT  
 ? OR THU/RL)  
 L6 ( 49)SEA FILE=HCAPLUS ABB=ON L5 AND (L1 OR L2)  
 L7 ( 26)SEA FILE=HCAPLUS ABB=ON L6 AND (HUMAN# OR CHIMP? OR MICE  
 OR PIG# OR MONKEY#)  
 L8 ( 3)SEA FILE=HCAPLUS ABB=ON L6 AND PARASIT?  
 L9 ( 26)SEA FILE=HCAPLUS ABB=ON L7 OR L8  
 L10 ( 6)SEA FILE=BIOSIS ABB=ON MALARITHERAPY  
 L11 ( 2)SEA FILE=BIOSIS ABB=ON MALARIO? (W) THERAP?  
 L12 ( 0)SEA FILE=HCAPLUS ABB=ON L10 OR L11  
 L13 ( 26)SEA FILE=HCAPLUS ABB=ON L9 OR L12  
 L14 ( 4389)SEA FILE=HCAPLUS ABB=ON FALCIPARUM  
 L16 ( 14)SEA FILE=HCAPLUS ABB=ON L14 AND L5  
 L17 ( 38)SEA FILE=HCAPLUS ABB=ON L13 OR L16

=> file wpids

FILE 'WPIDS' ENTERED AT 14:22:13 ON 25 MAR 1998  
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FILE LAST UPDATED: 23 MAR 1998 <19980323/UP>

>>>UPDATE WEEKS:

MOST RECENT DERWENT WEEK 199812 <199812/DW>

DERWENT WEEK FOR CHEMICAL CODING: 199807

DERWENT WEEK FOR POLYMER INDEXING: 199809

DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE.

>>> D COST AND SET NOTICE DO NOT REFLECT SUBSCRIBER DISCOUNTS -

SEE HELP COST FOR DETAILS <<<

KATHLEEN FULLER BT/LIBRARY 308-4290

>>> CHANGES TO DWPI COVERAGE - SEE NEWS <<<

=> d que 130

L18 ( 482)SEA FILE=HCAPLUS ABB=ON (P OR PLASMODIUM) (W) (FLACIPARUM  
OR OVALE OR VIVAX OR MALARIAE) OR (T OR TREPONEMA) (W) PALL  
IDIUM  
L19 ( 5655)SEA FILE=HCAPLUS ABB=ON SMALLPOX (W) VIRUS OR (M OR MYCOBA  
CTERIUM) (W) TUBERCULOSIS OR ASCARIS (W) LUMBRICOIDES OR DERA  
TOPHYTE  
L20 ( 34262)SEA FILE=HCAPLUS ABB=ON HIV OR IMMUNODEFICIEN? OR IMMUNE  
(W) DEFICIEN?  
L21 ( 158209)SEA FILE=HCAPLUS ABB=ON (E OR ESCHERICHIA) (W) COLI OR HIS  
TOPLASMA (W) CAPSULATUM OR HISTOPLASINOSIS OR (B OR BORRELI  
A) (W) BURGDORFERI OR LIME? (W) DISEASE# OR TYPHOID OR NORWAL  
K (W) VIRUS OR ROTOVIRUS  
L22 ( 20489)SEA FILE=HCAPLUS ABB=ON (L20 OR L21) (5A) (INHIBIT? OR TRE  
AT? OR THU/RL)  
L23 ( 49)SEA FILE=HCAPLUS ABB=ON L22 AND (L18 OR L19)  
L24 ( 26)SEA FILE=HCAPLUS ABB=ON L23 AND (HUMAN# OR CHIMP? OR MIC  
E OR PIG# OR MONKEY#)  
L25 ( 3)SEA FILE=HCAPLUS ABB=ON L23 AND PARASIT?  
L26 ( 5)SEA FILE=WPIDS ABB=ON L24 OR L25  
L27 ( 6)SEA FILE=BIOSIS ABB=ON MALARIOOTHERAPY  
L28 ( 2)SEA FILE=BIOSIS ABB=ON MALARIO? (W) THERAP?  
L29 ( 0)SEA FILE=WPIDS ABB=ON L27 OR L28  
L30 ( 5)SEA FILE=WPIDS ABB=ON L26 OR L29

=> file biosis

FILE 'BIOSIS' ENTERED AT 14:22:24 ON 25 MAR 1998  
COPYRIGHT (C) 1998 BIOSIS(R)

FILE COVERS 1969 TO DATE.  
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNS) PRESENT  
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 20 March 1998 (980320/ED)  
CAS REGISTRY NUMBERS (R) LAST ADDED: 20 March 1998 (980320/UP)

=> d que 146

L31 ( 482)SEA FILE=HCAPLUS ABB=ON (P OR PLASMODIUM) (W) (FLACIPARUM  
OR OVALE OR VIVAX OR MALARIAE) OR (T OR TREPONEMA) (W) PALL  
IDIUM  
L32 ( 5655)SEA FILE=HCAPLUS ABB=ON SMALLPOX (W) VIRUS OR (M OR MYCOBA  
CTERIUM) (W) TUBERCULOSIS OR ASCARIS (W) LUMBRICOIDES OR DERA  
TOPHYTE  
L33 ( 34262)SEA FILE=HCAPLUS ABB=ON HIV OR IMMUNODEFICIEN? OR IMMUNE  
(W) DEFICIEN?  
L34 ( 158209)SEA FILE=HCAPLUS ABB=ON (E OR ESCHERICHIA) (W) COLI OR HIS  
TOPLASMA (W) CAPSULATUM OR HISTOPLASINOSIS OR (B OR BORRELI  
A) (W) BURGDORFERI OR LIME? (W) DISEASE# OR TYPHOID OR NORWAL  
K (W) VIRUS OR ROTOVIRUS  
L35 ( 20489)SEA FILE=HCAPLUS ABB=ON (L33 OR L34) (5A) (INHIBIT? OR TRE  
AT? OR THU/RL)  
L36 ( 49)SEA FILE=HCAPLUS ABB=ON L35 AND (L31 OR L32)  
L37 ( 26)SEA FILE=HCAPLUS ABB=ON L36 AND (HUMAN# OR CHIMP? OR MIC  
E OR PIG# OR MONKEY#)  
L38 ( 3)SEA FILE=HCAPLUS ABB=ON L36 AND PARASIT?  
L39 ( 95)SEA FILE=BIOSIS ABB=ON L37 OR L38  
L40 ( 89)SEA FILE=BIOSIS ABB=ON L39 AND 86215/BC  
L41 ( 1)SEA FILE=BIOSIS ABB=ON L40 AND PROTECT?

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L42 ( 10)SEA FILE=BIOSIS ABB=ON L40 AND INHIBIT?  
 L43 ( 2)SEA FILE=BIOSIS ABB=ON L40 AND PARASIT?  
 L44 ( 6)SEA FILE=BIOSIS ABB=ON MALAROTHERAPY  
 L45 ( 2)SEA FILE=BIOSIS ABB=ON MALARIO?(W)THERAP?  
 L46 19 SEA FILE=BIOSIS ABB=ON L41 OR L42 OR L43 OR L44 OR L45

=> file medline

FILE 'MEDLINE' ENTERED AT 14:22:36 ON 25 MAR 1998

FILE LAST UPDATED: 19 MAR 1998 (19980319/UP). FILE COVERS 1966 TO DATE.

THE MEDLINE FILE WAS RELOADED FEBRUARY 15, 1998, TO REFLECT THE ANNUAL MESH (MEDICAL SUBJECT HEADING) CHANGES. ENTER HELP RLOAD FOR DETAILS.

THIS FILE CONTAINS CAS REGISTRY NUMBERS FOR EASY AND ACCURATE SUBSTANCE IDENTIFICATION.

=> d que 164

L47 ( 482)SEA FILE=HCAPLUS ABB=ON (P OR PLASMODIUM) (W) (FLACIPARUM OR OVALE OR VIVAX OR MALARIAE) OR (T OR TREPONEMA) (W) PALL IDIUM  
 L48 ( 5655)SEA FILE=HCAPLUS ABB=ON SMALLPOX(W)VIRUS OR (M OR MYCOBA CTERIUM) (W)TUBERCULOSIS OR ASCARIS(W)LUMBRICOIDES OR DERA TOPHYTE  
 L49 ( 34262)SEA FILE=HCAPLUS ABB=ON HIV OR IMMUNODEFICIEN? OR IMMUNE (W)DEFICIEN?  
 L50 ( 158209)SEA FILE=HCAPLUS ABB=ON (E OR ESCHERICHIA) (W)COLI OR HIS TOPLASMA(W)CAPSULATUM OR HISTOPLASINOSIS OR (B OR BORRELI A) (W)BURGDORFERI OR LIME?(W)DISEASE# OR TYPHOID OR NORWAL K(W)VIRUS OR ROTOVIRUS  
 L51 ( 20489)SEA FILE=HCAPLUS ABB=ON (L49 OR L50) (5A) (INHIBIT? OR TRE AT? OR THU/RL)  
 L52 ( 49)SEA FILE=HCAPLUS ABB=ON L51 AND (L47 OR L48)  
 L53 ( 26)SEA FILE=HCAPLUS ABB=ON L52 AND (HUMAN# OR CHIMP? OR MIC E OR PIG# OR MONKEY#)  
 L54 ( 3)SEA FILE=HCAPLUS ABB=ON L52 AND PARASIT?  
 L55 ( 26)SEA FILE=HCAPLUS ABB=ON L53 OR L54  
 L56 ( 6)SEA FILE=BIOSIS ABB=ON MALAROTHERAPY  
 L57 ( 2)SEA FILE=BIOSIS ABB=ON MALARIO?(W)THERAP?  
 L58 ( 0)SEA FILE=HCAPLUS ABB=ON L56 OR L57  
 L59 ( 91)SEA FILE=MEDLINE ABB=ON L55 OR L58  
 L60 ( 9402)SEA FILE=MEDLINE ABB=ON HYPERTHERMIA, INDUCED+NT/CT  
 L61 ( 9)SEA FILE=MEDLINE ABB=ON L59 AND L60  
 L62 ( 46315)SEA FILE=MEDLINE ABB=ON ACQUIRED IMMUNODEFICIENCY SYNDRO ME+NT/CT  
 L63 ( 14)SEA FILE=MEDLINE ABB=ON L60 AND L62  
 L64 22 SEA FILE=MEDLINE ABB=ON L61 OR L63

=> file embase

FILE 'EMBASE' ENTERED AT 14:22:55 ON 25 MAR 1998  
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FILE COVERS 1974 TO 20 Mar 1998 (19980320/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que 174

L49 ( 34262)SEA FILE=HCAPLUS ABB=ON HIV OR IMMUNODEFICIEN? OR IMMUNE (W)DEFICIEN?

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L50 ( 158209) SEA FILE=HCAPLUS ABB=ON (E OR ESCHERICHIA) (W) COLI OR HIS  
 TOPLASMA (W) CAPSULATUM OR HISTOPLASINOSIS OR (B OR BORRELI  
 A) (W) BURGDORFERI OR LIME? (W) DISEASE# OR TYPHOID OR NORWAL  
 K (W) VIRUS OR ROTOVIRUS  
 L66 8410 SEA FILE=EMBASE ABB=ON (P OR PLASMODIUM) (W) FALCIPARUM  
 L67 224428 SEA FILE=EMBASE ABB=ON L49 OR L50  
 L68 267 SEA FILE=EMBASE ABB=ON L66 AND L67  
 L69 152 SEA FILE=EMBASE ABB=ON L68 AND PARASIT?  
 L70 31 SEA FILE=EMBASE ABB=ON L68 AND TREAT?  
 L71 10 SEA FILE=EMBASE ABB=ON MALARIOOTHERAPY  
 L72 21 SEA FILE=EMBASE ABB=ON L70 AND (HUMAN/CT OR APE# OR CHIM  
 P# OR PIG# OR MICE OR MONKEY#)  
 L73 16 SEA FILE=EMBASE ABB=ON L69 AND L72  
 L74 26 SEA FILE=EMBASE ABB=ON L71 OR L73

=> file aidsline

FILE 'AIDSFILE' ENTERED AT 14:23:15 ON 25 MAR 1998

FILE COVERS 1980 TO 13 MAR 1998 (19980313/ED)

Aidsline has been reloaded with 1998 MeSH headings. See HELP RLOAD  
 for details.

This file contains CAS Registry Numbers for easy and accurate  
 substance identification.

=> d que 186

L47 ( 482) SEA FILE=HCAPLUS ABB=ON (P OR PLASMODIUM) (W) (FLACIPARUM  
 OR OVALE OR VIVAX OR MALARIAE) OR (T OR TREPONEMA) (W) PALL  
 IDIUM  
 L48 ( 5655) SEA FILE=HCAPLUS ABB=ON SMALLPOX (W) VIRUS OR (M OR MYCOBA  
 CTERIUM) (W) TUBERCULOSIS OR ASCARIS (W) LUMBRICOIDES OR DERA  
 TOPHYTE  
 L75 1560 SEA FILE=AIDSFILE ABB=ON L47 OR L48  
 L78 2 SEA FILE=AIDSFILE ABB=ON MALARIA (L) TU/CT  
 L79 42 SEA FILE=AIDSFILE ABB=ON L75 AND PARASIT?  
 L80 4 SEA FILE=AIDSFILE ABB=ON L79 AND TU/CT  
 L86 6 SEA FILE=AIDSFILE ABB=ON L78 OR L80

=> file cancerlit

FILE 'CANCERLIT' ENTERED AT 14:23:28 ON 25 MAR 1998

FILE COVERS 1963 TO 12 Feb 1998 (19980212/ED)

Cancerlit has been reloaded with 1997 MeSH headings. See NEWS FILE  
 and HELP RLOAD for details.

This file contains CAS Registry Numbers for easy and accurate  
 substance identification.

The problem with incorrect information in the Document Type (DT) field  
 has been corrected.

=> d que 190

L47 ( 482) SEA FILE=HCAPLUS ABB=ON (P OR PLASMODIUM) (W) (FLACIPARUM  
 OR OVALE OR VIVAX OR MALARIAE) OR (T OR TREPONEMA) (W) PALL  
 IDIUM  
 L48 ( 5655) SEA FILE=HCAPLUS ABB=ON SMALLPOX (W) VIRUS OR (M OR MYCOBA  
 CTERIUM) (W) TUBERCULOSIS OR ASCARIS (W) LUMBRICOIDES OR DERA  
 TOPHYTE

L87 989 SEA FILE=CANCERLIT ABB=ON L47 OR L48  
 L88 115 SEA FILE=CANCERLIT ABB=ON L87 AND TU/CT  
 L89 4076 SEA FILE=CANCERLIT ABB=ON ADJUVANTS, IMMUNOLOGIC+NT/CT  
 L90 5 SEA FILE=CANCERLIT ABB=ON L88 AND L89

=> dup rem 117 130 146 164 174 186 190

FILE 'HCAPLUS' ENTERED AT 14:26:07 ON 25 MAR 1998  
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FILE 'MEDLINE' ENTERED AT 14:26:07 ON 25 MAR 1998

FILE 'EMBASE' ENTERED AT 14:26:07 ON 25 MAR 1998  
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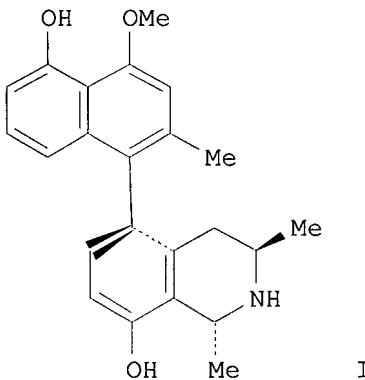
FILE 'AIDSLINE' ENTERED AT 14:26:07 ON 25 MAR 1998

FILE 'CANCERLIT' ENTERED AT 14:26:07 ON 25 MAR 1998  
 PROCESSING COMPLETED FOR L17  
 PROCESSING COMPLETED FOR L30  
 PROCESSING COMPLETED FOR L46  
 PROCESSING COMPLETED FOR L64  
 PROCESSING COMPLETED FOR L74  
 PROCESSING COMPLETED FOR L86  
 PROCESSING COMPLETED FOR L90  
 L94 108 DUP REM L17 L30 L46 L64 L74 L86 L90 (13 DUPLICATES REMOVED)

=> d 194 all 1-109



L94 ANSWER 1 OF 108 HCAPLUS COPYRIGHT 1998 ACS  
 AN 1998:20035 HCAPLUS  
 DN 128:154264  
 TI Acetogenic isoquinoline alkaloids. 105. Antiprotozoal activity of naphthylisoquinoline alkaloids. 10. **HIV-inhibitory** natural products. 44. First synthesis of the antimalarial naphthylisoquinoline alkaloid dioncophylline C, and its unnatural anti-HIV dimer, jozimine C  
 AU Bringmann, Gerhard; Holenz, Jorg; Weirich, Ralf; Rubenacker, Martin; Funke, Christian; Boyd, Michael R.; Gulakowski, Robert J.; Francois, Guido  
 CS Institut fur Organische Chemie, Universitat Wurzburg, Wurzburg, D-97074, Germany  
 SO Tetrahedron (1998), 54(3/4), 497-512  
 CODEN: TETRAB; ISSN: 0040-4020  
 PB Elsevier Science Ltd.  
 DT Journal  
 LA English  
 CC 31-5 (Alkaloids)  
 Section cross-reference(s): 1  
 GI



AB The first total synthesis of dioncophylline C (I), a new antimalarial lead structure, was described. For the directed construction of the stereogenic biaryl axis, the "lactone methodol." is applied, despite the lack of a "bridgehead oxygen" function in the target mol. The novel dimer of I, "jozimine C", was prepd., via oxidative phenolic coupling of the protected natural monomer. Jozimine C displayed good antimalarial activity (*Plasmodium falciparum*; IC<sub>50</sub> = 0.445 .μ.g/mL), and represents the first unnatural dimer of a naphthylisoquinoline alkaloid with a high anti-HIV activity (HIV-1; EC<sub>50</sub> = 27 .μ.g/mL).

ST antimalarial naphthylisoquinoline alkaloid dioncophylline C prepn; jozimine C anti HIV dimer prepn; oxidative phenolic coupling jozimine dimer prepn; isoquinoline naphthyl alkaloid antimalarial prepn; dimer naphthylisoquinoline alkaloid anti HIV prepn; michellamine alkaloid prepn

IT Antiviral agents  
(HIV; prepn. of the antimalarial dioncophylline C and its unnatural anti-HIV dimer jozimine C naphthylisoquinoline alkaloids)

IT Isoquinoline alkaloids  
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (naphthyl; prepn. of the antimalarial dioncophylline C and its unnatural anti-HIV dimer jozimine C naphthylisoquinoline alkaloids)

IT Antimalarials  
Human immunodeficiency virus 1  
(prepn. of the antimalarial dioncophylline C and its unnatural anti-HIV dimer jozimine C naphthylisoquinoline alkaloids)

IT 146471-75-2P, (+)-Dioncophylline C  
RL: BAC (Biological activity or effector, except adverse); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
(prepn. of the antimalarial dioncophylline C and its unnatural anti-HIV dimer jozimine C naphthylisoquinoline alkaloids)

IT 202413-67-0P, (+)-Jozimine C  
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
(prepn. of the antimalarial dioncophylline C and its unnatural anti-HIV dimer jozimine C naphthylisoquinoline alkaloids)

IT 162147-18-4 202215-71-2  
RL: RCT (Reactant)  
(prepn. of the antimalarial dioncophylline C and its unnatural anti-HIV dimer jozimine C naphthylisoquinoline alkaloids)

IT 146471-72-9P 169168-95-0P 202215-64-3P 202215-66-5P  
202215-67-6P 202215-69-8P 202215-73-4P 202215-75-6P

202215-77-8P 202334-96-1P 202334-97-2P 202334-98-3P  
 202334-99-4P 202335-00-0P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of the antimalarial dioncophylline C and its unnatural  
 anti-HIV dimer jozimine C naphthylisoquinoline alkaloids)

IT 202420-13-1P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of the antimalarial dioncophylline C and its unnatural  
 anti-HIV dimer jozimine C naphthylisoquinoline alkaloids)

L94 ANSWER 2 OF 108 HCPLUS COPYRIGHT 1998 ACS  
 AN 1998:102258 HCPLUS  
 TI **Plasmodium falciparum** antigen-induced human  immunodeficiency virus type 1 replication is mediated through induction of tumor necrosis factor-.alpha.  
 AU Xiao, Lihua; Owen, Sherry M.; Rudolph, Donna L.; Lal, Renu B.; Lal, Altaf A.  
 CS Immunology Branch, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Division of Parasitic Diseases, Atlanta, GA, USA  
 SO J. Infect. Dis. (1998), 177(2), 437-445  
 CODEN: JIDIAQ; ISSN: 0022-1899  
 PB University of Chicago Press  
 DT Journal  
 LA English  
 CC 15 (Immunochemistry)  
 AB Because malaria-stimulated cytokine prodn. may have deleterious effects on human immunodeficiency virus type 1 (HIV-1) replication, the effects of **Plasmodium falciparum** antigens on HIV-1 replication were studied. Stimulation with malarial antigens significantly enhanced HIV-1 replication of HIV-1LAV and primary HIV-1 isolates (subtype A) in CD8-depleted peripheral blood mononuclear cells from naive donors. The malarial antigen-induced activation of HIV-1 was due to cellular activation as judged by the expression of cell activation markers and proliferative responses. While malarial antigen stimulation increased expression of tumor necrosis factor (TNF-.alpha.) and interleukin-6 (IL-6), only monoclonal antibodies (MAbs) to TNF-.alpha. inhibited malarial antigen-induced HIV-1 replication, whereas MAb to IL-6 had no effect. Malarial antigen increased HIV-1 replication by increasing viral mRNA expression and by activating long terminal repeat-directed viral transcription. These data suggest that **P. falciparum** infection can modulate HIV-1 pathogenesis by activating lymphocytes and stimulating viral replication through the prodn. of cytokines.

L94 ANSWER 3 OF 108 HCPLUS COPYRIGHT 1998 ACS  
 AN 1998:27878 HCPLUS  
 DN 128:153006  
 TI Mannan decelerates the clearance of human red blood cells in SCID mouse  
 AU Ishihara, Chiaki; Hiratai, Rumi; Tsuji, Masayoshi; Yagi, Kazuaki; Nose, Masao; Azuma, Ichiro  
 CS School of Veterinary Medicine, Rakuno Gakuen University, Ebetsu, 069, Japan  
 SO Immunopharmacology (1998), 38(3), 223-228  
 CODEN: IMMUDP; ISSN: 0162-3109  
 PB Elsevier Science B.V.  
 DT Journal  
 LA English  
 CC 15-8 (Immunochemistry)  
 AB Mannans and its related compds. decelerated human (Hu) red blood cell (RBC)-clearance in severe combined immunodeficiency (SCID) mice by inhibiting erythro-phagocytosis of

macrophages. Chimeric SCID mice for Hu-RBC which are generated by repeated transfusions with mature Hu-RBCs are described recently as a model for **Plasmodium falciparum** infection, though the Hu-RBC clearance in the mice at present is very rapid and the parasitemia in the mice is only erratic. Here, we aimed to study the method to decelerate Hu-RBC clearance in SCID mice, to establish a suitable mouse model for malaria parasites. Yeast and Candida mannans as well as lactoferrin, a glycoprotein contg. both oligomannoside- and N-acetyllactosamine-type glycans, decelerated Hu-RBC clearance, but instead other saccharides such as carboxymethyl chitin, N-acetylglucosamine, and D--glucose did not. Yeast mannan and lactoferrin interfered significantly with in vitro Hu-RBC-phagocytosis which was also inhibited by mannopentaose and mannotriose. D-Mannose exhibited a moderate inhibitory activity. N-acetyl-D-glucosamine, however, showed only a slight inhibitory activity, but D--glucose had no inhibitory activity on Hu-RBC phagocytosis. These results may postulate that Hu-RBC clearance in SCID mouse might be mediated by receptor-ligand binding by a macrophage lectin like receptor with mannose specificity.

ST malaria model erythrocyte phagocytosis macrophage mannan; lactoferrin erythrocyte phagocytosis macrophage malaria model

IT Biological simulation

Erythrocyte

Macrophage

Malaria

Mouse

Phagocytosis

**Plasmodium falciparum**

Severe combined immunodeficiency

(mannan, lactoferrin and D-mannose derivs. decelerate clearance of human red blood cells in SCID mouse model for malaria)

IT Lactoferrins

RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)

(mannan, lactoferrin and D-mannose derivs. decelerate clearance of human red blood cells in SCID mouse model for malaria)

IT 3458-28-4, D-Mannose 9036-88-8, Mannan 28173-52-6, Mannotriose 70281-35-5, Mannopentaose

RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)

(mannan, lactoferrin and D-mannose derivs. decelerate clearance of human red blood cells in SCID mouse model for malaria)

L94 ANSWER 4 OF 108 BIOSIS COPYRIGHT 1998 BIOSIS

AN 97:90270 BIOSIS

DN 99389473

TI Fever therapy: Lessons from the history and efficacy of <sup>2</sup> **malariaotherapy**.

AU Stolley P D

CS Dep. Epidemiol. Preventive Med., Univ. Maryland Sch. Med., Baltimore, MD 21201, USA

SO Mackowiak, P. A. (Ed.). Fever: Basic mechanisms and management, Second edition. xix+506p. Lippincott-Raven Publishers: Philadelphia, Pennsylvania, USA. 0 (0). 1997. 331-336. ISBN: 0-397-51715-7

DT Book

LA English

PR Biological Abstracts/RRM Vol. 049 Iss. 003 Ref. 036112

ST BOOK CHAPTER; TREPONEMA PALLIDUM; HUMAN; FEBRILE PATIENT; FEVER; NEUROSYPHILIS; **MALARIOThERAPY**; PHARMACOLOGY; INFECTION; NERVOUS SYSTEM DISEASE; BACTERIAL DISEASE; ANTIBACTERIAL PHARMACOTHERAPY

CC Pathology, General and Miscellaneous-Therapy \*12512

Nervous System-Pathology \*20506

Pharmacology-Clinical Pharmacology \*22005

Pharmacology-Neuropharmacology \*22024  
 Temperature: Its Measurement, Effects and Regulation-Thermopathology  
 \*23007  
 Medical and Clinical Microbiology-Bacteriology \*36002  
 Chemotherapy-Antibacterial Agents \*38504  
 BC Spirochaetaceae 06112  
 Hominidae 86215

L94 ANSWER 5 OF 108 CANCERLIT  
 AN 1998031652 CANCERLIT  
 DN 98031652  
 TI Detection of bacillus Calmette-Guerin in the blood by the polymerase chain reaction method of treated bladder cancer patients.  
 AU Tuncer S; Tekin M I; Ozen H; Bilen C; Unal S; Remzi D  
 CS Department of Urology and Infectious Disease, Hacettepe University, Ankara, Turkey.  
 SO JOURNAL OF UROLOGY, (1997). Vol. 158, No. 6, pp. 2109-12.  
 Journal code: KC7. ISSN: 0022-5347.  
 DT Journal; Article; (JOURNAL ARTICLE)  
 FS MEDL; Cancer Journals; L; Priority Journals  
 LA English  
 OS MEDLINE 98031652  
 EM 199801  
 AB PURPOSE: Following intravesical bacillus Calmette-Guerin (BCG) instillation, we attempted to detect BCG in the blood using the polymerase chain reaction (PCR) method and correlate these findings with the occurrence of major complications due to this treatment.  
 MATERIALS AND METHODS: Intravesical BCG immunotherapy was given to 22 consecutive patients with superficial bladder tumors. In 2 patients the BCG instillation had to be discontinued due to serious side effects of therapy. Blood samples (252 aliquots) were obtained from 126 BCG courses in 22 cases, and 2 additional samples (4 aliquots) were obtained from 1 patient 1 and 3 months after cessation of therapy. All blood samples were analyzed by the PCR technique for detection of deoxyribonucleic acid tuberculosis **Mycobacterium tuberculosis**. RESULTS: Of the 126 blood samples 9 (7.1%) were PCR positive for **M. tuberculosis**. These 9 positive samples belonged to 3 patients, all of whom were among those 4 patients who had major clinical side effects. CONCLUSIONS: We demonstrated that rapid and sensitive detection of mycobacteremia by PCR correlated with the clinical course of these patients. We also demonstrated that PCR can be used to monitor BCG in the blood after antituberculous therapy. The early, fast and accurate diagnosis of BCG in the blood by PCR may alter the serious clinical course of these patients by initiation of specific treatment early. However, further extensive studies are needed to validate these results.  
 CT Check Tags: Case Report; Female; Human; Male  
**\*Adjuvants, Immunologic: BL, blood**  
**Adjuvants, Immunologic: TU, therapeutic use**  
 Aged  
**\*BCG Vaccine: BL, blood**  
**BCG Vaccine: TU, therapeutic use**  
**\*Bladder Neoplasms: BL, blood**  
 Bladder Neoplasms: TH, therapy  
 Middle Age  
 Pilot Projects  
**\*Polymerase Chain Reaction**  
 CN 0 (Adjuvants, Immunologic); 0 (BCG Vaccine)

L94 ANSWER 6 OF 108 BIOSIS COPYRIGHT 1998 BIOSIS  
 AN 97:516416 BIOSIS  
 DN 99815619

TI Does prior tuberculosis **protect** human

immunodeficiency virus-infected persons from *Mycobacterium avium* complex disease? (and reply).

AU Collazos J  
 CS Section Infectious Diseases, Hosp. Galdakao, 48960 Vizcaya, Spain  
 SO Journal of Infectious Diseases 176 (5). 1997. 1412-1413. ISSN: 0022-1899  
 DT Short Communication  
 LA English  
 PR Biological Abstracts Vol. 104 Iss. 012 Ref. 173223  
 ST LETTER; **MYCOBACTERIUM AVIUM**; **MYCOBACTERIUM TUBERCULOSIS**; **HUMAN IMMUNODEFICIENCY VIRUS**; **HIV**; **HUMAN**; **COMPLEX**; **PATHOGEN**; **PATIENT**; **TUBERCULOSIS**; **HUMAN IMMUNODEFICIENCY VIRUS INFECTION**; **HIV INFECTION**; **MYCOBACTERIUM AVIUM COMPLEX DISEASE**; **INFECTION**; **ANTIMYCOBACTERIAL IMMUNITY**; **RIFAMPIN**; **ANTIBACTERIAL-DRUG**; **ANTITUBERCULOSIS AGENT**; **ETHAMBUTOL**; **ANTIBACTERIAL-DRUG**; **AIDS**; **ACQUIRED IMMUNODEFICIENCY SYNDROME**; **IMMUNE SYSTEM**; **TREATMENT**; **BACTERIAL DISEASE**; **VIRAL DISEASE**; **IMMUNE SYSTEM DISEASE**

RN 74-55-5 (ETHAMBUTOL)  
 13292-46-1 (RIFAMPIN)

CC Biochemical Studies-General \*10060  
 Pathology, General and Miscellaneous-Therapy \*12512  
 Blood, Blood-Forming Organs and Body Fluids-Blood, Lymphatic and Reticuloendothelial Pathologies \*15006  
 Blood, Blood-Forming Organs and Body Fluids-Lymphatic Tissue and Reticuloendothelial System \*15008  
 Pharmacology-Clinical Pharmacology \*22005  
 Pharmacology-Blood and Hematopoietic Agents \*22008  
 Pharmacology-Immunological Processes and Allergy \*22018  
 Virology-Animal Host Viruses \*33506  
 Immunology and Immunochemistry-Bacterial, Viral and Fungal \*34504  
 Immunology and Immunochemistry-Immunopathology, Tissue Immunology \*34508  
 Medical and Clinical Microbiology-Bacteriology \*36002  
 Medical and Clinical Microbiology-Virology \*36006  
 Chemotherapy-Antibacterial Agents \*38504

BC Retroviridae 02623  
 Mycobacteriaceae 08881  
**Hominidae 86215**

L94 ANSWER 7 OF 108 HCPLUS COPYRIGHT 1998 ACS  
 AN 1997:337038 HCPLUS  
 DN 127:12775  
 TI Retreatment tuberculosis cases Factors associated with drug resistance and adverse outcomes  
 AU Kritski, Afranio L.; De Jesus, Luis Sergio Rodrigues; Andrade, Monica K.; Werneck-Barroso, Eduardo; Vieira, Maria Armanda Monteiro S.; Haffner, Alice; Riley, Lee W.  
 CS Hospital Clementino Fraga Filho, Servico de Pneumologia, da Universidade Federal do Rio de Janeiro, Brazil  
 SO Chest (1997), 111(5), 1162-1167  
 CODEN: CHETBF; ISSN: 0012-3692  
 PB American College of Chest Physicians  
 DT Journal; General Review  
 LA English  
 CC 1-0 (Pharmacology)  
 AB A review with .aprx.16 refs. Risk factors assocd. with treatment failure and multi-drug-resistant tuberculosis (MDR-TB) were examd. among **HIV**-seroneg. patients who were previously **treated** for tuberculosis (TB). Prospective, cohort study of patients referred to the study hospital for retreatment of TB between Mar. 1986 and Mar. 1990. The patients belonged to three groups, according to outcomes following their previous treatment: 37 patients who abandoned treatment or suffered relapse after

completion of therapy (group A), 91 patients who failed to respond to the first-line drug regimen (group B), and 78 patients who failed to respond to the second-line drug regimen (group C). Patients with **Mycobacterium tuberculosis** strains resistant to rifampin and isoniazid were found in 2 (6%) in group A, 29 (33%) in group B, and 49 (65%) in group C. Cure was achieved in 77% in group A, 54% in group B, and 36% in group C. Death occurred in none of the patients in group A, 8% in group B, and 24% in group C. In a multi-variate logistic regression anal., unfavorable response (failure to sterilize sputum culture, death, and abandonment) was significantly assocd. with infection with a multi-drug-resistant **M tuberculosis** strain ( $p=0.0002$ ), cavitary disease ( $p=0.0029$ ), or irregular use of medications ( $p<0.0001$ ). These observations show that a previous treatment outcome and current clin. and epidemiol. histories can be used to predict the development of MDR-TB and adverse outcomes in patients undergoing retreatment for TB. Such information may be useful for identifying appropriate patient candidates for programs such as directly obsd. therapy.

ST review tuberculostatic drug resistance  
 IT Drug resistance  
 Tuberculostatics  
 (retreatment tuberculosis cases Factors assocd. with drug resistance and adverse outcomes in **humans**)

L94 ANSWER 8 OF 108 MEDLINE  
 AN 1998024480 MEDLINE  
 DN 98024480  
 TI Extracorporeal whole body hyperthermia treatments for HIV infection and AIDS.  
 AU Ash S R; Steinhart C R; Curfman M F; Gingrich C H; Sapir D A; Ash E L; Fausset J M; Yatvin M B  
 CS HemoCleanse Inc., West Lafayette, Indiana 47906, USA.  
 SO ASAIO JOURNAL, (1997 Sep-Oct) 43 (5) M830-8.  
 Journal code: BBH. ISSN: 1058-2916.  
 CY United States  
 DT (CLINICAL TRIAL)  
 Journal; Article; (JOURNAL ARTICLE)  
 (RANDOMIZED CONTROLLED TRIAL)  
 LA English  
 FS Priority Journals  
 EM 199803  
 EW 19980303  
 AB Whole body hyperthermia therapy (WBHT) is the elevation of the core body temperature to 42 degrees C. In vitro studies have confirmed that 42 degrees C is cytoidal for virally infected lymphocytes, and even more effective when heating is repeated 4 days later. The safety and efficacy of two successive sessions of WBHT (4 days apart) was evaluated in 30 patients with AIDS (not on protease inhibitors), randomized to: 1) untreated controls, 2) low temperature WBHT for 1 hour at 40 degrees C and repeated 96 hours later, and 3) high temperature WBHT for 1 hour at 42 degrees C and repeated 96 hours later. The sorbent suspension in the ThermoChem System (HemoCleanse, West Lafayette, IN) system automatically controlled blood phosphate, calcium, and other electrolyte concentrations during WBHT. In 1 year of follow-up after WBHT, there were positive effects of the therapy on frequency of AIDS defining events, Karnofsky score, and weight maintenance. However, effects on plasma HIV RNA and CD4 counts were transient. Two successive WBHT treatments were performed in four patients who were on protease inhibitor/triple drug therapy, but had suboptimal response. In follow-up for 6 months, plasma HIV RNA and CD4 improved after WBHT, and the patients remained clinically well. This WBHT may have specific advantages in patients with suboptimal response to protease

inhibitor therapy.

CT Check Tags: Human; In Vitro; Male; Support, Non-U.S. Gov't  
**Acquired Immunodeficiency Syndrome: PP, physiopathology**  
**\*Acquired Immunodeficiency Syndrome: TH, therapy**  
**Acquired Immunodeficiency Syndrome: VI, virology**  
 Adult  
 CD4 Lymphocyte Count  
 Electrolytes: BL, blood  
 Extracorporeal Circulation: IS, instrumentation  
**\*Extracorporeal Circulation: MT, methods**  
 Hemodynamics  
**Hyperthermia, Induced: IS, instrumentation**  
**\*Hyperthermia, Induced: MT, methods**  
 HIV Infections: PP, physiopathology  
**\*HIV Infections: TH, therapy**  
 HIV Infections: VI, virology  
 Middle Age  
 RNA, Viral: BL, blood

CN 0 (Electrolytes); 0 (RNA, Viral)

L94 ANSWER 9 OF 108 AIDSLINE  
 AN 1997:20241 AIDSLINE  
 DN MED-97374346  
 TI Nitazoxanide in the treatment of cryptosporidial diarrhea and other intestinal **parasitic** infections associated with acquired immunodeficiency syndrome in tropical Africa.  
 AU Doumbo O; Rossignol J F; Pichard E; Traore H A; Dembele T M; Diakite M; Traore F; Diallo D A  
 CS Department of Parasitology, Mali National School of Medicine and Pharmacy, Bamako Mali.  
 NC N0125143  
 SO AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE, (1997). Vol. 56, No. 6, pp. 637-9.  
 Journal code: 3ZQ. ISSN: 0002-9637.  
 CY United States  
 DT (CLINICAL TRIAL)  
 FS Journal; Article; (JOURNAL ARTICLE)  
 MED; Abridged Index Medicus Journals; Priority Journals  
 LA English  
 OS MEDLINE 97374346  
 EM 199710  
 AB Eighteen patients hospitalized with intestinal **parasitic** infections associated with diarrhea and dehydration completed a study of nitazoxanide in the treatment of *Cryptosporidium parvum* and other intestinal **parasitic** infections. Seventeen of the 18 patients were positive for human immunodeficiency virus. Twelve patients were diagnosed with clinical Stage 4 acquired immunodeficiency syndrome (AIDS) according to the 1990 World Health Organization proposed clinical classification system and cryptosporidiosis. Nitazoxanide (500 mg tablets) were administered orally, one tablet twice a day for seven consecutive days. *Cryptosporidium parvum* oocysts were eradicated or reduced by more than 95% in seven of the 12 Stage 4 AIDS patients who completed the study based upon two post-treatment fecal examinations conducted on days 7 and 14 following the initiation of treatment. The elimination or reduction of *C. parvum* oocysts was associated with a complete resolution of diarrhea in four of the seven patients. The test drug was also effective against cases of *Isospora belli*, *Entamoeba histolytica*, *Giardia lamblia*, **Ascaris lumbricoides**, *Enterobius vermicularis*, *Hymenolepis nana*, and *Dicrocoelium dentriticum*. Treatment with nitazoxanide was well tolerated by the patients. There were no abnormalities in blood chemistry or hematology data that were considered to be attributable to nitazoxanide therapy. Transient episodes of vomiting were observed

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in four patients, all with Stage 4 AIDS and cryptosporidiosis, which resolved spontaneously without discontinuation of treatment and were not considered to be related to administration of nitazoxanide.

CT Check Tags: Animal; Human; Support, Non-U.S. Gov't; Support, U.S. Gov't, P.H.S.

**\*Antiprotozoal Agents: TU, therapeutic use**

\*AIDS-Related Opportunistic Infections: DT, drug therapy

Cryptosporidiosis: CO, complications

\*Cryptosporidiosis: DT, drug therapy

Cryptosporidium parvum: DE, drug effects

Diarrhea: CO, complications

\*Diarrhea: DT, drug therapy

**Diarrhea: PS, parasitology**

Intestinal Diseases, **Parasitic**: CO, complications

\*Intestinal Diseases, **Parasitic**: DT, drug therapy

Mali

**\*Thiazoles: TU, therapeutic use**

RN 55981-09-4 (nitazoxanide)

CN 0 (Antiprotozoal Agents); 0 (Thiazoles)

L94 ANSWER 10 OF 108 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.

AN 97383359 EMBASE

DN 1997383359

TI [Rapid tests for diagnosis of **parasitic** and fungal diseases].

TESTS RAPIDES POUR LE DIAGNOSTIC DES **PARASITOSES** ET DES MYCOSES.

AU Robert R.

CS R. Robert, Laboratoire Parasitologie-Mycologie, Faculte de Pharmacie, 16, boulevard Daviers, 49100 Angers, France

SO Immuno-Analyse et Biologie Specialisee, (1997) 12/5 (232-240).

Refs: 72

ISSN: 0923-2532 CODEN: IBSPEW

CY France

DT Journal; General Review

FS 004 Microbiology

026 Immunology, Serology and Transplantation

LA French

SL English; French

AB Today it is important to have good rapid methods for laboratory diagnosis of **parasitic** or fungal diseases. Indeed with modern high-speed travel and population movements, biologists anywhere may be called upon to diagnose cosmopolitan or tropical **parasitic** infections. Concerning mycosis, the incidence of opportunistic infections has increased progressively. They affect predominantly **immunodeficient** patients or patients under predisposing conditions (extensive surgical procedures or prolonged antibacterial, cytotoxic, or immunosuppressive **treatment**, among others). The definitive diagnosis of **parasitic** or fungal infections continues to be based on clinical criteria supported by procedures used in processing specimens for isolation and identification of **parasite** or fungi. The detection of the responsible agents is difficult in case of invasive infections. For this reason, immunological methods, used to detect soluble antigens or antibodies, were developed for the diagnosis of these diseases. Unfortunately, the classical methods (immunofluorescence assays, enzyme-linked immunosorbent assays, immunoprecipitation tests) are technically time consuming and specific therapy cannot be rapidly instituted. Therefore some rapid immunological tests for diagnosis of **parasitic** or fungal infections were developed. Commercialized latex agglutination tests are available for: diagnosis of toxoplasmosis and hepatic amoebiasis by antibodies detection; diagnosis of disseminated candidiasis, aspergillosis or cryptococcosis by antigens detection in serum, or cerebrospinal

fluid; diagnosis of vaginal candidiasis by antigens detection in vaginal specimen; rapid identification of *Candida* colonies. Lateral flow immunochromatographic test sticks based on the detection of antigens in blood, serum or stool for diagnosis of *Plasmodium falciparum* infection, lymphatic filariasis or intestinal amoebiasis are marketed. These rapid tests are single step, sensitive and specific. They are easy to use and to interpret.

CT Medical Descriptors:

\*parasitosis: DI, diagnosis  
 \*mycosis: DI, diagnosis  
 \*laboratory diagnosis  
 antigen detection  
 antibody detection  
 immunofluorescence test  
 enzyme linked immunosorbent assay  
 immunoprecipitation  
 latex agglutination test  
 toxoplasmosis: DI, diagnosis  
 liver amebiasis: DI, diagnosis  
 candidiasis: DI, diagnosis  
 aspergillosis: DI, diagnosis  
 cryptococcosis: DI, diagnosis  
 chromatography  
 malaria falciparum: DI, diagnosis  
 filariasis: DI, diagnosis  
 amebiasis: DI, diagnosis  
**human**  
 review  
 priority journal  
 Drug Descriptors:

\*parasite antigen: EC, endogenous compound  
 \*parasite antibody: EC, endogenous compound  
 \*fungus antigen: EC, endogenous compound  
 \*fungus antibody: EC, endogenous compound

L94 ANSWER 11 OF 108 CANCERLIT

AN 1998041070 CANCERLIT

DN 98041070

TI Z-100, a polysaccharide-rich preparation extracted from the human type *Mycobacterium tuberculosis*, improves the resistance of Meth-A tumor-bearing mice to endogenous septic infection.

AU Sasaki H; Kobayashi M; Emori Y; Ohya O; Hayashi Y; Nomoto K  
 CS Central Research Laboratories, Zeria Pharmaceutical Co., Ltd.,  
 Saitama, Japan.

SO BIOTHERAPY, (1997). Vol. 10, No. 2, pp. 139-43.  
 Journal code: AU3. ISSN: 0921-299X.

DT Journal; Article; (JOURNAL ARTICLE)

FS MEDL; L; Priority Journals

LA English

OS MEDLINE 98041070

EM 199802

AB The effect of Z-100, an immunomodulatory arabinomannan extracted from *Mycobacterium tuberculosis*, on cecal ligation and puncture (CLP)-induced sepsis in mice bearing Meth-A fibrosarcoma was investigated. When normal BALB/c mice were subjected to the CLP procedure, their mortality rate was 17%. On the other hand, an increased mortality was observed in tumor-bearing mice subjected to CLP 10 days after tumor inoculation, and then all mice died when tumor-bearing mice were subjected to CLP 20 days after tumor inoculation. However, the increased percent mortality was decreased by 50% when these mice were injected intraperitoneally with a 10 mg/kg dose of Z-100. When splenocytes (5 x 10<sup>7</sup> cells),

obtained from Meth-A tumor-bearing mice 20 days after tumor inoculation, were transferred intravenously to normal mice (recipient mice), mortality of these recipient mice were increased by 62% as compared with that of the control (22%). However, no increased mortality (25%) was observed in recipient mice which were transferred with splenocytes from tumor-bearing mice injected intraperitoneally with Z-100 (10 mg/kg). In addition, suppressor cell activity was demonstrated in splenocytes from Meth-A tumor-bearing mice at 20 days after tumor inoculation using one-way mixed lymphocyte reaction. However, the suppressor cell activity was significantly decreased by the intraperitoneal administration of a 10 mg/kg dose of Z-100 ( $p < 0.01$ ). The increase of mortality in recipient mice by adoptive transfer of mononuclear cells (MNCs) from tumor-bearing mice was not detected when these MNCs were treated with anti-Thy 1.2 monoclonal antibody (mAb), anti-Lyt 2.2 mAb or anti-CD11b mAb, but an increase was seen with anti-Lyt 1.2 mAb or anti-immunoglobulin antiserum treated MNCs. These results suggest that the suppressor cells affect the mortality of CLP-induced sepsis and Z-100 may have a therapeutic activity against opportunistic infections in immunocompromised hosts through the regulation of suppressor T-cells.

CT Check Tags: Animal; Female; Male

\***Adjuvants, Immunologic: TU, therapeutic use**

Cecum

Fibrosarcoma: CI, chemically induced

\*Fibrosarcoma: IM, immunology

Immunotherapy, Adoptive

Ligation

\***Lipids: TU, therapeutic use**

\***Mannans: TU, therapeutic use**

Mice

Mice, Inbred C57BL

Punctures

Sepsis: ET, etiology

\*Sepsis: PC, prevention & control

Spleen: CY, cytology

Spleen: DE, drug effects

Spleen: IM, immunology

T-Lymphocytes, Suppressor-Effect: DE, drug effects

T-Lymphocytes, Suppressor-Effect: IM, immunology

CN 0 (Adjuvants, Immunologic); 0 (Lipids); 0 (Mannans); 0 (SSM)

L94 ANSWER 12 OF 108 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 1

AN 97:167297 BIOSIS

DN 99473900

7

TI **Malariatherapy** for HIV patients.

AU Heimlich H J; Chen X P; Xiao B Q; Liu S G; Lu Y H; Spletzer E G; Yao J L

CS Heimlich Inst., 2368 Victory Parkway, Suite 410, Cincinnati, OH, USA

SO Mechanisms of Ageing and Development 93 (1-3). 1997. 79-85. ISSN: 0047-6374

LA English

PR Biological Abstracts Vol. 103 Iss. 009 Ref. 129569

AB The objective of this study was to determine whether HIV patients who undergo **malariatherapy** experience beneficial immunological change without iatrogenic complications. In an approved, prospective study, asymptomatic, HIV-positive patients were inoculated with

**P. vivax** malaria and the malaria infection was allowed to run a predetermined course according to standard **malariatherapy** protocols and was cured with chloroquine.

After termination of the malaria, the patients have been followed for 2 years with clinical and immunological monitoring. In the first two HIV-positive patients, CD4 counts rose significantly from pre-malaria measurements and remain at normal levels 2 years later without

AU Nasr, Mohamed E.  
 CS Division AIDS, National Institute Allergy and Infectious Diseases,  
 Bethesda, MD, 20852, USA  
 SO Book of Abstracts, 213th ACS National Meeting, San Francisco, April  
 13-17 (1997), CINF-023 Publisher: American Chemical Society,  
 Washington, D. C.  
 CODEN: 64AOAA  
 DT Conference; Meeting Abstract  
 LA English  
 AB The Division of AIDS (DAIDS) supports research to identify and  
 develop therapeutic agents for the prevention and **treatment**  
 of infections with the **human immunodeficiency**  
 virus (HIV) and assocd. opportunistic infections (OI's) including  
**Mycobacterium tuberculosis** (TB). Computerized  
 data bases contg. chem. structures and biol. data have been  
 established by DAIDS that are designed to be the most up-to-date  
 information source on current research on HIV, OI's and TB exptl.  
 therapies. The data bases are currently managed using ISISBASE and  
 ISISHOST software of MDL Information Systems, Inc. The data bases  
 provide support for: (1) the acquisition, prioritization and to  
 avoid duplication of testing compds. for biol. evaluation in  
 contracts operated by DAIDS; (2) to track developments through  
 literature surveillance and abstraction of data on exptl.  
 chemotherapies of HIV and OI's; (3) to serve as knowledge base for  
 the NIAID and the scientific community; and (4) to prep. reviews on  
 structure activity relationships.

L94 ANSWER 15 OF 108 HCAPLUS COPYRIGHT 1998 ACS X  
 AN 1997:116537 HCAPLUS  
 DN 126:122443  
 TI Vectors for the diagnosis and treatment of solid tumors including  
 melanoma  
 IN Pawelek, John M.; Bermudes, David; Low, Kenneth B.  
 PA Yale University, USA  
 SO PCT Int. Appl., 197 pp.  
 CODEN: PIXXD2  
 PI WO 9640238 A1 961219  
 DS W: AL, AM, AU, AZ, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IL,  
 IS, JP, KG, KP, KR, KZ, LK, LR, LS, LT, LV, MD, MG, MK, MN, MX,  
 NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, UZ, VN, AM,  
 AZ, BY  
 RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FI, FR, GA, GB,  
 GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG  
 AI WO 96-US10250 960605  
 PRAI US 95-486422 950607  
 US 96-658034 960604  
 DT Patent  
 LA English  
 IC ICM A61K039-02  
 ICS A61K039-112; C07K014-525; C12N001-02; C12N015-63; C12N015-74;  
 G01N033-48  
 CC 63-3 (Pharmaceuticals)  
 Section cross-reference(s): 1, 16  
 AB The present invention is directed to the isolation and use of X  
 super-infective, tumor-specific vectors that are strains of  
 parasites including, but not limited to, bacteria, fungi and  
 protists. In certain embodiments, the parasites include, but are  
 not limited to, the bacterium *Salmonella* spp., such as *Salmonella*  
*typhimurium*, the bacterium *Mycobacterium avium* and the protozoan  
*Leishmania amazonensis*. In other embodiments, the present invention  
 is concerned with the isolation of super-infective, tumor-specific,  
 suicide gene-contg. strains of parasites for use in treatment of  
 solid tumors.  
 ST antitumor microbial vector melanoma

IT Antitumor agents  
Melanoma inhibitors  
(Vectors for the diagnosis and treatment of solid tumors including melanoma)  
IT Kidney tumors  
(inhibitors; vectors for the diagnosis and treatment of solid tumors including melanoma)  
IT Antitumor agents  
(kidney; vectors for the diagnosis and treatment of solid tumors including melanoma)  
IT Plasmids  
(pTK-Sec3; vectors for the diagnosis and treatment of solid tumors including melanoma)  
IT Genes (microbial)  
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(suicide; vectors for the diagnosis and treatment of solid tumors including melanoma)  
IT Human herpesvirus  
(thymidine kinase gene of; vectors for the diagnosis and treatment of solid tumors including melanoma)  
IT Genes (microbial)  
RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)  
(thymidine kinase-encoding; vectors for the diagnosis and treatment of solid tumors including melanoma)  
IT Chemotaxis  
(tumor-directed; vectors for the diagnosis and treatment of solid tumors including melanoma)  
IT **Borrelia burgdorferi**  
Breast tumor inhibitors  
Brucella melitensis  
Chlamydia trachomatis  
Colon carcinoma inhibitors  
Cryptococcus neoformans  
DNA sequences  
Diagnosis  
Eimeria acervulina  
Encephalitozoon cuniculi  
**Escherichia coli**  
Genetic engineering  
Hepatoma inhibitors  
**Histoplasma capsulatum**  
Legionella pneumophila  
Leishmania amazonensis  
Leishmania major  
Leishmania mexicana  
Leptomonas karyophilus  
Listeria monocytogenes  
Lung tumor inhibitors  
Metastasis inhibitors  
Molecular cloning  
Mycoplasma hominis  
Neospora caninum  
Nosema helminthorum  
PCR (polymerase chain reaction)  
Phytomonas  
**Plasmodium falciparum**  
Pneumocystis carinii  
Prostatic tumor inhibitors  
Protein sequences  
Rochalimaea quintana  
Salmonella typhi  
Salmonella typhimurium

Sarcocystis suisominis  
 Shigella  
 Site-specific mutation  
 Streptococcus  
 Toxoplasma gondii  
 Treponema pallidum  
 Trypanosoma cruzi  
 Unikaryon legeri  
 Yersinia enterocolitica  
     (vectors for the diagnosis and **treatment** of solid tumors including melanoma)  
 IT Lipid A  
     RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)  
     (vectors for the diagnosis and treatment of solid tumors including melanoma)  
 IT Promoter (genetic element)  
     RL: BPN (Biosynthetic preparation); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)  
     (vectors for the diagnosis and treatment of solid tumors including melanoma)  
 IT Tumor necrosis factor .alpha.  
     RL: MFM (Metabolic formation); THU (Therapeutic use); BIOL (Biological study); FORM (Formation, nonpreparative); USES (Uses)  
     (vectors for the diagnosis and treatment of solid tumors including melanoma)  
 IT 82410-32-0, Ganciclovir  
     RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
     (vectors for the diagnosis and treatment of solid tumors including melanoma)  
 IT 9001-22-3, .beta.-Glucosidase 9001-45-0, .beta.-Glucuronidase  
 9002-06-6, Thymidine kinase 9014-06-6, Penicillin V amidase  
 9025-05-2, Cytosine deaminase 9037-41-6, Nitroreductase  
 9055-15-6, Oxidoreductase 9073-60-3, .beta.-Lactamase 9074-87-7, Carboxypeptidase G2  
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
     (vectors for the diagnosis and treatment of solid tumors including melanoma)  
 L94 ANSWER 16 OF 108 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.  
 AN 96276487 EMBASE  
 TI Immunization of Aotus nancymai with recombinant C terminus of **Plasmodium falciparum** merozoite surface protein 1 in liposomes and alum adjuvant does not induce protection against a challenge infection.  
 AU Burghaus P.A.; Wellde B.T.; Hall T.; Richards R.L.; Egan A.F.; Riley E.M.; Ballou W.R.; Holder A.A.  
 CS Division of Parasitology, Ridgeway, Mill Hill, London NW7 1AA, United Kingdom  
 SO Infection and Immunity, (1996) 64/9 (3614-3619).  
 ISSN: 0019-9567 CODEN: INFIBR  
 CY United States  
 DT Journal  
 FS 004 Microbiology  
 026 Immunology, Serology and Transplantation  
 LA English  
 SL English  
 AB Merozoite surface protein 1 (MSP-1) of **Plasmodium falciparum** is an antimalarial vaccine candidate. The highly conserved 19-kDa C-terminal processing fragment of MSP-1 (MSP-119) is of particular interest since it contains epitopes recognized by monoclonal antibodies which inhibit the invasion of erythrocytes in

vitro. The presence of naturally acquired anti- MSP-119 antibodies in individuals exposed to malaria has been correlated with reduced morbidity, and immunization with an equivalent recombinant *P. yoelii* antigen induces substantial protection against this **parasite** in **mice**. We have expressed *P. falciparum*

MSP-119 in *Escherichia coli* as a correctly folded protein and immunized *Aotus nancymai* **monkeys** by using the protein incorporated into liposomes and adsorbed to alum. After vaccination, the sera from these animals contained anti-MSP-119 antibodies, some of which competed for binding to MSP-119 with monoclonal antibodies that inhibit **parasite** invasion of erythrocytes in vitro. However, after challenge with either a homologous or a heterologous strain of **parasite**, all animals became **parasitemic** and required **treatment**. The immunization did not induce protection in this animal model.

CT EMTAGS: infection (0310); prevention (0165); therapy (0160); invertebrate (0723); protozoon (0751); genetic engineering and gene technology (0108); bacterium (0762); mammal (0738); nonhuman (0777); animal experiment (0112); animal model (0106); biological model (0502); article (0060); priority journal (0007)

Medical Descriptors:

\*malaria: PC, prevention

\*malaria: TH, therapy

\*infection prevention

\*active immunization

**plasmodium falciparum**

vaccine production

protein determination

immunogenicity

antigen recognition

expression vector

**escherichia coli**

*aotus*

nonhuman

animal experiment

animal model

article

priority journal

Drug Descriptors:

\*malaria vaccine

\*membrane protein

L94 ANSWER 17 OF 108 AIDSLINE

AN 1996:8685 AIDSLINE

DN MED-96261674

TI Circumventing genetic restriction of protection against malaria with multigene DNA immunization: CD8+ cell-, interferon gamma-, and nitric oxide-dependent immunity.

AU Doolan D L; Sedegah M; Hedstrom R C; Hobart P; Charoenvit Y; Hoffman S L

CS Malaria Program, Naval Medical Research Institute, Bethesda, Maryland 20889-5607, USA.

SO JOURNAL OF EXPERIMENTAL MEDICINE, (1996). Vol. 183, No. 4, pp. 1739-46.

Journal code: I2V. ISSN: 0022-1007.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

FS MED; Priority Journals; Cancer Journals

LA English

OS MEDLINE 96261674

EM 199610

AB Despite efforts to develop vaccines that protect against malaria by inducing CD8+ T cells that kill infected hepatocytes, no subunit

vaccine has been shown to circumvent the genetic restriction inherent in this approach, and little is known about the interaction of subunit vaccine-induced immune effectors and infected hepatocytes. We now report that immunization with plasmid DNA encoding the plasmodium yoelii circumsporozoite protein protected one of five strains of mice against malaria (H-2d, 75%); a PyHEP17 DNA vaccine protected three of the five strains (H-2a, 71%; H-2k, 54%; H-2d, 26%); and the combination protected 82% of H-2a, 90% of H-2k, and 88% of H-2d mice. Protection was absolutely dependent on CD8+ T cells, INF-gamma, or nitric oxide. These data introduce a new target of protective preerythrocytic immune responses, PyHEP 17 and its P. falciparum homologue, and provide a realistic perspective on the opportunities and challenges inherent in developing malaria vaccines that target the infected hepatocyte.

CT Check Tags: Animal; Comparative Study; Female; Support, U.S. Gov't, Non-P.H.S.

CD8-Positive T-Lymphocytes: IM, immunology  
 \*DNA, Protozoan: TU, therapeutic use  
 Genes, Protozoan  
 Immunity: GE, genetics  
 \*Immunization  
 Interferon Type II  
 Lymphocyte Depletion  
 \*Malaria: PC, prevention & control  
 \*Malaria Vaccines: TU, therapeutic use  
 Mice: GE, genetics  
 Nitric Oxide  
 Plasmids: TU, therapeutic use  
 Plasmodium yoelii: GE, genetics  
 Plasmodium yoelii: IM, immunology  
 Protozoan Proteins: GE, genetics  
 Protozoan Proteins: IM, immunology  
 Species Specificity  
 \*Vaccines, Synthetic: TU, therapeutic use

RN 10102-43-9 (Nitric Oxide); 82115-62-6 (Interferon Type II)

CN 0 (circumsporozoite protein); 0 (DNA, Protozoan); 0 (Malaria Vaccines); 0 (Plasmids); 0 (Protozoan Proteins); 0 (Vaccines, Synthetic)

L94 ANSWER 18 OF 108 BIOSIS COPYRIGHT 1998 BIOSIS  
 AN 96:521128 BIOSIS

DN 99243484

TI Pentoxyfylline therapy in **human** immunodeficiency virus-seropositive persons with tuberculosis: A randomized, controlled trial.

AU Wallis R S; Nsubuga P; Whalen C; Mugerwa R D; Okwera A; Oette D; Jackson J B; Johnson J L; Ellner J J

CS Div. Infect. Dis., CWRU Sch. Med., BRB 1037, 10900 Euclid Ave., Cleveland, OH 44106-4984, USA

SO Journal of Infectious Diseases 174 (4). 1996. 727-733. ISSN: 0022-1899

LA English

PR Biological Abstracts Vol. 102 Iss. 011 Ref. 159114

AB Macrophage activation and tumor necrosis factor-alpha (TNF-alpha) production are critical in tuberculosis immunity but may result in increased **human** immunodeficiency virus (HIV) expression and accelerated HIV disease progression in **HIV**-infected persons. Pentoxyfylline **inhibits** expression of TNF-alpha and **HIV**. A double-blind, placebo-controlled study of adjunctive therapy with pentoxyfylline (1800 mg/day) as a timed-release formulation was done in Ugandan HIV-infected patients with pulmonary tuberculosis. Subjects had early HIV disease (mean CD4 cell count, 380/mu-L) and did not receive other antiretroviral drugs. Pentoxyfylline resulted in decreased plasma HIV RNA and serum

beta-2-microglobulin and, in a subset of moderately anemic patients, improved blood hemoglobin levels. Trends were noted toward reduced TNF-alpha production in vitro and improved performance scores, but these did not reach statistical significance. No effect was noted on body mass, CD4 cell count, or survival. Additional studies of more potent TNF-alpha **inhibitors** in **HIV**-positive subjects with tuberculosis are warranted.

ST RESEARCH ARTICLE; **MYCOBACTERIUM TUBERCULOSIS**;

**HUMAN; HUMAN IMMUNODEFICIENCY VIRUS; HOST; PATHOGEN; INFECTION; PHARMACOLOGY; PENTOXIFYLLINE THERAPY; PENTOXIFYLLINE; ENZYME INHIBITOR-DRUG; IMMUNOSUPPRESSANT-DRUG; RANDOMIZED, CONTROLLED TRIAL; PHOSPHODIESTERASE**

**INHIBITOR; HUMAN IMMUNODEFICIENCY VIRUS**

INFECTIO; SEROPOSITIVITY; TUBERCULOSIS; TUMOR NECROSIS FACTOR-ALPHA; IMMUNE RESPONSE; THERAPEUTIC METHOD; VIRAL DISEASE; BACTERIAL DISEASE

RN 6493-05-6 (PENTOXIFYLLINE)

9025-82-5 (PHOSPHODIESTERASE)

CC Biochemical Studies-General 10060

Pathology, General and Miscellaneous-Therapy \*12512

Pharmacology-Clinical Pharmacology \*22005

Pharmacology-Immunological Processes and Allergy \*22018

Immunology and Immunochemistry-Bacterial, Viral and Fungal \*34504

Immunology and Immunochemistry-Immunopathology, Tissue Immunology \*34508

Medical and Clinical Microbiology-Bacteriology \*36002

Medical and Clinical Microbiology-Virology \*36006

Chemotherapy-Antiviral Agents \*38506

BC Retroviridae 02623

Mycobacteriaceae 08881

**Hominidae 86215**

L94 ANSWER 19 OF 108 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.

AN 96212815 EMBASE

TI Photosensitized inactivation of **Plasmodium falciparum** in human red cells by phthalocyanines.

AU Lustigman S.; Ben-Hur E.

CS New York Blood Center, 310 East 67th Street, New York, NY 10021, United States

SO Transfusion, (1996) 36/6 (543-546).

ISSN: 0041-1132 CODEN: TRANAT

CY United States

DT Journal

FS 004 Microbiology

025 Hematology

LA English

SL English

AB Background: Photodynamic **treatment** of red cell concentrate with phthalocyanines and red light inactivates lipid-enveloped viruses such as vesicular stomatitis virus and human **immunodeficiency** virus. This procedure is evaluated for its ability to enhance the viral safety of red cell concentrate for transfusion. It is of interest to study whether photodynamic **treatment** could also inactivate **parasites** in blood (e.g., **Plasmodium falciparum**). Study Design and Methods: Red cells **parasitized** by **P falciparum** were **treated** with phthalocyanines and red light and then cultured in vitro for 48 hours. The percentage of **parasitemia** was then estimated by microscopic examination of the red cells. Results: Of the phthalocyanines studied, the one that proved to be the most effective was HOSiPcOSi(CH<sub>3</sub>)<sub>2</sub>CH<sub>2</sub>)<sub>3</sub>N(CH<sub>3</sub>)<sub>2</sub> (Pc 4). The extent of **parasite** inactivation increased with light dose and decreased with an increase in hematocrit. At a hematocrit of 60 percent and 2 .mu.M Pc 4, .1toreq.3 log<sub>10</sub> kill occurred at a light dose of 60 J per cm<sup>2</sup>. This is a lower dose than

is required for  $\text{ltoreq.6 log10}$  of vesicular stomatitis virus inactivation (90 J/cm<sup>2</sup>). Conclusion: Photodynamic **treatment** with PC 4 could make red cell concentrate not only virally safe for transfusion but also safe with respect to transmitting malaria.

CT EMTAGS: infection (0310); prevention (0165); therapy (0160); invertebrate (0723); protozoon (0751); virus (0761); mammal (0738); **human** (0888); controlled study (0197); human tissue, cells or cell components (0111); article (0060)

Medical Descriptors:

- \*malaria falciparum: PC, prevention
- \*erythrocyte concentrate
- photodynamic therapy
- photosensitization
- plasmodium falciparum**
- infection prevention
- virus inactivation
- vesicular stomatitis virus
- human**
- controlled study
- human cell
- article

Drug Descriptors:

- \*phthalocyanine derivative

L94 ANSWER 20 OF 108 MEDLINE  
 AN 97359908 MEDLINE  
 DN 97359908  
 TI Therapeutic hyperthermia in cancer and AIDS: an updated survey.  
 AU Pontiggia P; Rotella G B; Sabato A; Curto F C  
 CS Department of Hyperthermia and Oncology, Clinica Citt`a di Pavia, Italy.  
 SO JOURNAL OF ENVIRONMENTAL PATHOLOGY, TOXICOLOGY AND ONCOLOGY, (1996) 15 (2-4) 289-97. Ref: 39  
 Journal code: JOU. ISSN: 0731-8898.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 General Review; (REVIEW)  
 (REVIEW, TUTORIAL)  
 LA English  
 FS Priority Journals; Cancer Journals  
 EM 199710  
 EW 19971002  
 AB The aim of this paper is to update with personal contributions the progress thus far accomplished in the clinical application of hyperthermia (HT) in cancer and chronic infectious diseases. The HT treatment has been successfully developed since the 1970s in cancer patients in whom it showed positive results consisting of complete or partial clinical remissions. Its rationale was based on the fact that core temperatures of  $>$  or  $=$  42 degrees C induce cytotoxic effects that are higher in malignant cells than in normal cells. HT could be applied by different methods according to type, stage, and localization of the malignancies. Thus, systemic whole-body HT (WBH), through invasive or noninvasive techniques, was first used in disseminated cancers; local perfusion, infusion, and interstitial HTs have been applied in limb, skin, subcutaneous, or intracavitory tumors. The observation of a macrophagic lysosomal exocytosis and subsequent cancer cell death induced by HT, suggested that its mechanism of action involves an immune reaction. This suggested the possibility of associating HT with cytotoxic agents, antibiotics, antiviral drugs, and antioxidants, including beta-carotene (BC). The association of HT with BC at high doses are synergistic in patients with AIDS-related complex (ARC) and improve its symptoms, preventing the progress of the disease into the severe stage of AIDS; the same synergism helped also to increase the survival time in patients with

severe AIDS.

CT Check Tags: Human

\*Acquired Immunodeficiency Syndrome: TH, therapy

\*Hyperthermia, Induced: MT, methods

\*Neoplasms: TH, therapy

    Perfusion, Regional: MT, methods

L94 ANSWER 21 OF 108 MEDLINE

AN 96183933 MEDLINE

DN 96183933

TI Effect of whole-body hyperthermia on AIDS patients with Kaposi's sarcoma: a pilot study.

AU Steinhart C R; Ash S R; Gingrich C; Sapir D; Keeling G N; Yatvin M B

CS Mercy Special Immunology Services, Miami, Florida, USA.

SO JOURNAL OF ACQUIRED IMMUNE DEFICIENCY SYNDROMES AND HUMAN RETROVIROLOGY, (1996 Mar 1) 11 (3) 271-81.

Journal code: B7J. ISSN: 1077-9450.

CY United States

DT (CLINICAL TRIAL)

Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199607

AB The safety and possible efficacy of extracorporeal whole-body hyperthermia (WBHT) were evaluated in the first FDA-approved feasibility study of WBHT in persons with AIDS. Six gay men, aged 20-50 years, CDC class C-3, underwent 1 h of WBHT at either 40 degrees C or 42 degrees C, employing a system that minimizes the physiological and biochemical changes that occur during WBHT. All subjects had Kaposi's sarcoma (KS), were free of opportunistic infections, and had significant elevations of plasma HIV RNA. During the treatment, there were no adverse side effects and all subjects tolerated WBHT without problems. KS lesions partially regressed immediately following WBHT in all subjects but returned to pretreatment status in five of six patients at 1 week. In subjects treated at 40 degrees C, CD4 counts decreased during the 8-week follow-up period; they remained unchanged, however, following 42 degrees C WBHT. Viral load remained unchanged following WBHT in subjects treated at 40 degrees C. Treatment at 42 degrees C resulted in an immediate reduction in HIV RNA that was not sustained at 1 week post-WBHT. We conclude that WBHT is safe in subjects with advanced HIV disease and that it may have a role in treating HIV infection. A larger controlled trial involving two treatments in less immunocompromised subjects is currently in progress to test this hypothesis.

CT Check Tags: Human; Male; Support, Non-U.S. Gov't

beta 2-Microglobulin: AN, analysis

Acquired Immunodeficiency Syndrome: BL, blood

Acquired Immunodeficiency Syndrome: CO, complications

\*Acquired Immunodeficiency Syndrome: TH, therapy

    Adolescence

    Adult

    CD4 Lymphocyte Count

    DNA, Viral: BL, blood

    Follow-Up Studies

\*Hyperthermia, Induced

    Hyperthermia, Induced: AE, adverse effects

    HIV Core Protein p24: BL, blood

    Middle Age

    Pilot Projects

    RNA, Viral: BL, blood

    Sarcoma, Kaposi: CO, complications

\*Sarcoma, Kaposi: TH, therapy

CN 0 (beta 2-Microglobulin); 0 (DNA, Viral); 0 (HIV Core Protein p24);

immunodeficiency virus type 1 and **Mycobacterium tuberculosis** infection in relation to tumor necrosis factor alpha prodn.)

L94 ANSWER 23 OF 108 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 3  
 AN 96:328979 BIOSIS  
 DN 99051335  
 TI Antibiotics and increased temperature against *Borrelia burgdorferi* in *vitro*. X  
 AU Reisinger E; Wendelin I; Gasser R; Halwachs G; Wilders-Truschnig M; Krejs G  
 CS Dep. Med., Karl Franzens Univ., Auenbruggerplatz 15, A-8036 Graz, Austria  
 SO Scandinavian Journal of Infectious Diseases 28 (2). 1996. 155-157.  
 ISSN: 0036-5548  
 LA English  
 PR Biological Abstracts Vol. 102 Iss. 003 Ref. 033508  
 AB In 1917, spirochaetal neurosyphilis was treated successfully with **malariotherapy** in combination with salvarsan or bismuth. **Malariotherapy** for spirochaetal Lyme disease has been discussed, but the mechanism of an antispirochaetal effect remains unclear. We cultured *Borrelia burgdorferi* at different temperatures, alone and in combination with antibiotics. Our data demonstrate that growth of the strains PKo and ATCC 35210 (B31) was impaired at temperatures of 37 degree C and inhibited at 39 degree C and 40 degree C, respectively. Strain ATCC 35211, however, grew well up to 39 degree C but did not multiply at 40 degree C. A bactericidal effect was seen at 41 degree C for the strains B31 and PKo and at 42 degree C for all strains. The susceptibility of all strains to penicillin and ceftriaxone was increased up to 16-fold by an elevation of temperature from 36 degree C to 38 degree C. These in vitro data suggest that elevated body temperature may be beneficial during antimicrobial treatment of Lyme disease. This may be particularly important in tissues where high concentrations of antibiotics are difficult to achieve.  
 ST RESEARCH ARTICLE; BORRELIA BURGDORFERI; PENICILLIN; ANTIBACTERIAL-DRUG; CEFTRIAXONE; ANTIBACTERIAL-DRUG; THERAPY  
 RN 1406-05-9 (PENICILLIN)  
 73384-59-5 (CEFTRIAXONE)  
 CC Biochemical Studies-General 10060  
 External Effects-Temperature as a Primary Variable \*10614  
 Pathology, General and Miscellaneous-Therapy \*12512  
 Physiology and Biochemistry of Bacteria \*31000  
 In Vitro Studies, Cellular and Subcellular 32600  
 Medical and Clinical Microbiology-Bacteriology \*36002  
 Chemotherapy-Antibacterial Agents \*38504  
 BC Spirochaetaceae 06112

L94 ANSWER 24 OF 108 BIOSIS COPYRIGHT 1998 BIOSIS  
 AN 96:106951 BIOSIS  
 DN 98679086  
 TI The katE gene, which encodes the catalase HPII of *Mycobacterium avium*.  
 AU Milano A; De Rossi E; Gusberti L; Heym B; Marone P; Riccardi G  
 CS Dipartimento Genetica Microbiologia, Univ. degli Studi Pavia, Via Abbiategrasso 207, 27100 Pavia, Italy  
 SO Molecular Microbiology 19 (1). 1996. 113-123. ISSN: 0950-382X  
 LA English  
 PR Biological Abstracts Vol. 101 Iss. 006 Ref. 079367  
 AB Disseminated *Mycobacterium avium*-*Mycobacterium intracellulare* disease is a prevalent opportunistic infection in patients with acquired immune deficiency syndrome (AIDS). These pathogens are generally resistant to isoniazid (INH), a powerful antituberculosis drug. It is now generally accepted that the INH susceptibility of

**Mycobacterium tuberculosis** results from the transformation of the drug into a toxic derivative, as a result of the action of the enzyme catalase-peroxidase (HPI), encoded by the katG gene. It has been speculated that the presence of a second catalase (HPII) in some mycobacterial species, but lacking in **M. tuberculosis**, may impair the action of INH. In this report, the nucleotide sequence of the *M. avium* katE gene, encoding catalase HPII, is described. This enzyme shows strong similarity to *Escherichia coli* catalase HPII and eukaryotic catalases. All amino acids previously postulated as participating directly in catalysis by liver catalase and most of the amino acids binding the prosthetic group are conserved in *M. avium* catalase HPII. The enzyme is expressed in *E. coli* and is inhibited by 3-amino-1,2,4-triazole (AT). Furthermore, Southern blot hybridizations and polymerase chain reaction experiments demonstrate the distribution of katE gene in several mycobacterial species. To evaluate the potentially antagonistic effect of HPII catalase on INH susceptibility, the katE gene was transformed into **M. tuberculosis** H37Rv and the minimum inhibitory concentration (MIC) for INH was determined. Despite strong expression of the katE gene, no change in MIC was observed, thus ruling out a possible contribution of this enzyme to the natural resistance of *M. avium* to the drug. The availability of the gene probe, encoding the second mycobacterial catalase HPII, should open the way for the development of new drugs and diagnostic tests to combat drug-resistant pathogen strains.

ST RESEARCH ARTICLE; MYCOBACTERIUM AVIUM; MYCOBACTERIUM INTRACELLULARE; HUMAN; ACQUIRED IMMUNODEFICIENCY SYNDROME; OPPORTUNISTIC INFECTIONS; POLYMERASE CHAIN REACTION

RN 9001-05-2 (CATALASE)

CC Biochemical Studies-Proteins, Peptides and Amino Acids 10064  
Enzymes-Methods \*10804  
Enzymes-Physiological Studies \*10808  
Genetics of Bacteria and Viruses \*31500  
Immunology and Immunochemistry-Immunopathology, Tissue Immunology \*34508

Medical and Clinical Microbiology-Bacteriology \*36002

Medical and Clinical Microbiology-Virology \*36006

BC Retroviridae 02623

Mycobacteriaceae 08881

**Hominidae 86215**

L94 ANSWER 25 OF 108 BIOSIS COPYRIGHT 1998 BIOSIS

AN 96:399935 BIOSIS

DN 99122291

TI CD4 response in HIV+ patients treated with **malariotherapy**.

AU Heimlich H J; Chen X P; Xiao B Q; Liu S G; Lu Y H; Spletzer E G; Yao J L

CS Heimlich Inst., Suite 410, 2368 Victory Pkwy., Cincinnati, OH 45206, USA

SO ELEVENTH INTERNATIONAL CONFERENCE ON AIDS. Eleventh International Conference on AIDS, Vol. Two. One world: One hope; Vancouver, British Columbia, Canada, July 7-12, 1996. viii+600p. Eleventh International Conference on AIDS: Vancouver, British Columbia, Canada 2 (0). 1996. 91.

DT Conference

LA English

PR Biological Abstracts/RRM Vol. 048 Iss. 009 Ref. 159868

ST MEETING ABSTRACT; MEETING POSTER; INTERLEUKIN; INTERFERON; HUMAN IMMUNODEFICIENCY VIRUS; ACQUIRED IMMUNODEFICIENCY SYNDROME; MORTALITY

CC General Biology-Symposia, Transactions and Proceedings of Conferences, Congresses, Review Annuals 00520

Biochemical Studies-Proteins, Peptides and Amino Acids 10064

Pathology, General and Miscellaneous-Necrosis \*12510

Pathology, General and Miscellaneous-Therapy 12512  
 Blood, Blood-Forming Organs and Body Fluids-Lymphatic Tissue and  
 Reticuloendothelial System \*15008  
 Endocrine System-General \*17002  
 Immunology and Immunochemistry-Immunopathology, Tissue Immunology  
 \*34508  
 Immunology, Parasitological \*35000  
 Medical and Clinical Microbiology-Virology \*36006  
 Parasitology-Medical \*60504  
 BC Retroviridae 02623  
 Sporozoa 35400  
 Hominidae 86215

L94 ANSWER 26 OF 108 MEDLINE  
 AN 95367234 MEDLINE  
 DN 95367234  
 TI Severe ulcers from an unconventional therapy against AIDS [letter].  
 AU Santarossa S; Bernardi D; Tirelli U  
 SO AIDS, (1995 May) 9 (5) 536.  
 Journal code: AID. ISSN: 0269-9370.  
 CY United States  
 DT Letter  
 LA English  
 FS Priority Journals  
 EM 199511  
 CT Check Tags: Case Report; Human; Male; Support, Non-U.S. Gov't  
**\*Acquired Immunodeficiency Syndrome: TH, therapy**  
 Adult  
**\*Hyperthermia, Induced: AE, adverse effects**  
**\*Skin Ulcer: ET, etiology**  
 Skin Ulcer: PA, pathology

L94 ANSWER 27 OF 108 MEDLINE  
 AN 96027809 MEDLINE  
 DN 96027809  
 TI Whole-body hyperthermia [letter; comment].  
 CM Comment on: J Acquir Immune Defic Syndr Hum Retrovirol 1995 Apr  
 1;8(4):321-9  
 AU Shecterle L M; St. Cyr J A  
 SO JOURNAL OF ACQUIRED IMMUNE DEFICIENCY SYNDROMES AND HUMAN  
 RETROVIROLOGY, (1995 Nov 1) 10 (3) 391.  
 Journal code: B7J. ISSN: 1077-9450.  
 CY United States  
 DT Commentary  
 Letter  
 LA English  
 FS Priority Journals  
 EM 199601  
 CT Check Tags: Human  
**\*Acquired Immunodeficiency Syndrome: TH, therapy**  
 Clinical Trials, Phase I  
**\*Hyperthermia, Induced: MT, methods**  
**\*HIV Infections: TH, therapy**

L94 ANSWER 28 OF 108 HCPLUS COPYRIGHT 1998 ACS DUPLICATE 4  
 AN 1995:967848 HCPLUS  
 DN 124:75862  
 TI Thalidomide **inhibits** lipoarabinomannan-induced  
 upregulation of **human immunodeficiency** virus  
 expression  
 AU Peterson, Phillip K.; Gekker, Genya; Bornemann, Michel; Chatterjee,  
 Delphi; Chao, Chun C.  
 CS Dep. Med., Univ. Minnesota Med. Sch., Minneapolis, MN, USA  
 SO Antimicrob. Agents Chemother. (1995), 39(12), 2807-9  
 KATHLEEN FULLER BT/LIBRARY 308-4290

CODEN: AMACQ; ISSN: 0066-4804  
 DT Journal  
 LA English  
 CC 1-7 (Pharmacology)  
 AB **Mycobacterium tuberculosis** accelerates the progression of **human immunodeficiency virus type 1 (HIV-1)** infection. The results of this study, which show that thalidomide **inhibits** the upregulation of **HIV-1** expression in U1 cells stimulated with mycobacterial lipoarabinomannans, support the rationale behind conducting controlled trials of this immunomodulatory agent with patients dually infected with HIV-1 and **M. tuberculosis**.  
 ST thalidomide HIV1 **Mycobacterium tuberculosis** infection  
 IT **Mycobacterium tuberculosis** (infection; thalidomide **inhibition** of lipoarabinomannan-induced upregulation of **HIV** expression in relation to dual **HIV-1** and **M. tuberculosis** infection **treatment**)  
 IT Virus, animal (human **immunodeficiency** 1, infection; thalidomide **inhibition** of lipoarabinomannan-induced upregulation of **HIV** expression in relation to dual **HIV-1** and **M. tuberculosis** infection **treatment**)  
 IT 50-35-1, Thalidomide  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (thalidomide **inhibition** of lipoarabinomannan-induced upregulation of **HIV** expression in relation to dual **HIV-1** and **M. tuberculosis** infection **treatment**)  
  
 L94 ANSWER 29 OF 108 AIDSLINE  
 AN 1996:4107 AIDSLINE  
 DN MED-96155139  
 TI A novel adjuvant for use with a blood-stage malaria vaccine.  
 AU de Souza J B; Playfair J H  
 CS University College London Medical School, Department of Immunology, UK.  
 SO VACCINE, (1995). Vol. 13, No. 14, pp. 1316-9.  
 CY ENGLAND: United Kingdom  
 DT Journal; Article; (JOURNAL ARTICLE)  
 FS MED; Priority Journals  
 LA English  
 OS MEDLINE 96155139  
 EM 199605  
 AB An effective vaccine delivery system has been developed for vaccination against a blood-stage malaria infection in mice. Subcutaneous vaccination with a semi-purified asexual blood-stage malaria antigen combined with an adjuvant formulation containing squalane, Tween 80 and pluronic L121 (AF) protected mice infected with a lethal *P. yoelii* infection against death and greatly reduced the severity and duration of parasitaemia. The adjuvant and the route of immunization are both clinically acceptable, thereby making this an attractive delivery system for a human malaria vaccine. Protective immunity appeared to be associated with an enhancement of both Th1 and Th2 subset cytokines.  
 CT Check Tags: Animal; Female; Male  
 \*Adjuvants, Immunologic: TU, therapeutic use  
 Antibodies, Protozoan: BI, biosynthesis  
 Antigens, Protozoan: IM, immunology  
 CD8-Positive T-Lymphocytes: IM, immunology  
 Injections, Subcutaneous

Interferon Type II: ME, metabolism  
 Interleukin-4: ME, metabolism  
 Malaria: BL, blood  
 Malaria: IM, immunology  
 \*Malaria: PC, prevention & control  
**\*Malaria Vaccines: TU, therapeutic use**  
 Mice  
 Mice, Inbred BALB C  
 Mice, Inbred C57BL  
 \*Plasmodium yoelii: IM, immunology  
 Saponins: IM, immunology  
 Saponins: TU, therapeutic use  
 Spleen: ME, metabolism  
 T-Lymphocytes, Cytotoxic: DE, drug effects  
 T-Lymphocytes, Cytotoxic: IM, immunology  
 Th1 Cells: IM, immunology  
 Th2 Cells: IM, immunology  
 RN 82115-62-6 (Interferon Type II)  
 CN 0 (Adjuvants, Immunologic); 0 (Antibodies, Protozoan); 0 (Antigens, Protozoan); 0 (Interleukin-4); 0 (Malaria Vaccines); 0 (Saponins)  
 L94 ANSWER 30 OF 108 CANCERLIT  
 AN 96113215 CANCERLIT  
 DN 96113215  
 TI Recent advances: antiinfectives.  
 AU Briceland L L; Cleary J D; Fletcher C V; Healy D P; Peloquin C A  
 CS Albany College of Pharmacy, NY, USA.  
 SO ANNALS OF PHARMACOTHERAPY, (1995). Vol. 29, No. 10, pp. 1035-40.  
 Journal code: BBX. ISSN: 1060-0280.  
 DT Journal; Article; (JOURNAL ARTICLE)  
 General Review; (REVIEW)  
 (REVIEW, TUTORIAL)  
 FS MEDL; L; Priority Journals  
 LA English  
 OS MEDLINE 96113215  
 EM 199611  
 AB OBJECTIVE: To update readers on the significant changes in infectious diseases pharmacotherapy. DATA SOURCES: An Index Medicus and Iowa Drug Information Service search (1993-1994) of English-language literature pertaining to the selected topic areas was performed. Additional information from abstracts presented at scientific meetings were identified by the authors. STUDY SELECTION AND DATA EXTRACTION: All identified studies were screened and those judged relevant to the update were evaluated. DATA SYNTHESIS: New or clinically significant data since 1992 that related to peptic ulcer disease, microbial resistance (e.g., *Enterococcus* spp., *Streptococcus pneumoniae*, ***Mycobacterium tuberculosis***, *Candida albicans*), immunomodulators, and AIDS were evaluated and compared with previous data. CONCLUSIONS: There have been several exciting and significant changes in infectious diseases pharmacotherapy evident from this review. (49 Refs)  
 CT Check Tags: Comparative Study; Human  
 Acquired Immunodeficiency Syndrome: DT, drug therapy  
**Adjuvants, Immunologic: TU, therapeutic use**  
 \*Anti-Infective Agents: PD, pharmacology  
**Antiviral Agents: TU, therapeutic use**  
 Drug Resistance, Microbial  
 Peptic Ulcer: DT, drug therapy  
 Peptic Ulcer: MI, microbiology  
 Streptococcus: DE, drug effects  
 Tuberculosis: DT, drug therapy  
**Zidovudine: TU, therapeutic use**  
 RN 30516-87-1 (Zidovudine)  
 CN 0 (Adjuvants, Immunologic); 0 (Anti-Infective Agents); 0 (Antiviral

08/846670

=> s human or ~~chip~~ or pig or monkey or mice

159865 HUMAN

93938 CHIP

14909 PIG

4182 MONKEY

31840 MICE

L1 267887 HUMAN OR ~~CHIP~~ OR PIG OR MONKEY OR MICE

=> s hiv or cancer or lime or typhoid or norwalk or rotovirus

5221 HIV

21129 CANCER

24048 LIME

329 TYPHOID

2005 NORWALK

5 ROTOVIRUS

L2 50267 HIV OR CANCER OR LIME OR TYPHOID OR NORWALK OR ROTOVIRUS

=> s 11 and 12

L3 23038 L1 AND L2

=> s plasmodium or pallidum or smallpox or mycobacterium or ascaris or tapeworm or helicobacter or ulcer

798 PLASMODIUM

312 PALLIDUM

374 SMALLPOX

2867 MYCOBACTERIUM

628 ASCARIS

130 TAPEWORM

179 HELICOBACTER

4489 ULCER

L4 9105 PLASMODIUM OR PALLIDUM OR SMALLPOX OR MYCOBACTERIUM OR ASCARIS  
RIS OR TAPEWORM OR HELICOBACTER OR ULCER

=> s 13 and 14

L5 1796 L3 AND L4

=> s parasite

L6 2620 PARASITE

=> s 15 and 16

L7 228 L5 AND L6

=> d 17 1-228

1. 5,728,719, Mar. 17, 1998, Systemic control of parasites; Thomas A. Miller, 514/360; 424/405; 501/123; 514/219, 241, 245, 298, 354, 369, 450, 452, 521, 594, 667, 712; 549/264; 568/592, 636 [IMAGE AVAILABLE]

2. 5,726,203, Mar. 10, 1998, Qinghaosu derivatives against AIDS; Zelin Li, et al., 514/450; 549/348, 354, 358 [IMAGE AVAILABLE]

3. 5,726,166, Mar. 10, 1998, Malaria treatments; John Hugh Lyon Playfair, et al., 514/129; 424/520; 514/738 [IMAGE AVAILABLE]
4. 5,726,014, Mar. 10, 1998, Screening assay for the detection of DNA-binding molecules; Cynthia A. Edwards, et al., 435/6, 91.2; 436/501 [IMAGE AVAILABLE]
5. 5,723,127, Mar. 3, 1998, Compositions and methods for use of IL-12 as an adjuvant; Phillip Scott, et al., 424/184.1, 191.1, 204.1, 234.1, 269.1; 530/350 [IMAGE AVAILABLE]
6. 5,719,055, Feb. 17, 1998, Transposon-based transformation vectors; Richard K. Cooper, 435/320.1, 252.33; 536/23.2, 23.7, 24.1 [IMAGE AVAILABLE]
7. 5,716,780, Feb. 10, 1998, Method of constructing sequence-specific DNA-binding molecules; Cynthia A. Edwards, et al., 435/6; 436/501 [IMAGE AVAILABLE]
8. 5,716,637, Feb. 10, 1998, Solid fat nanoemulsions as vaccine delivery vehicles; Shimon Anselem, et al., 424/450, 184.1, 188.1, 204.1, 208.1, 234.1, 236.1, 237.1, 269.1, 489, 490, 502; 428/937; 514/937 [IMAGE AVAILABLE]
9. 5,714,484, Feb. 3, 1998, .alpha.- (1,3-dicarbonylenol ether) methyl ketones as cysteine protease inhibitors; Mary P. Zimmerman, et al., 514/231.5, 459, 460, 471; 544/149, 152; 549/292, 318, 417 [IMAGE AVAILABLE]
10. 5,714,374, Feb. 3, 1998, Chimeric rhinoviruses; Edward V. Arnold, et al., 435/235.1; 424/93.6; 435/172.3 [IMAGE AVAILABLE]
11. 5,712,289, Jan. 27, 1998, Quinoline-5,8-diones and methods of using them; Mohammad Behforouz, et al., 514/311, 312, 313 [IMAGE AVAILABLE]
12. 5,712,149, Jan. 27, 1998, Chimeric receptor molecules for delivery of co-stimulatory signals; Margo R. Roberts, 435/252.3, 69.7, 320.1; 530/350; 536/23.4 [IMAGE AVAILABLE]
13. 5,712,125, Jan. 27, 1998, Competitive PCR for quantitation of DNA; Mathias Uhlen, 435/91.2, 810 [IMAGE AVAILABLE]
14. 5,712,086, Jan. 27, 1998, Process for transfusing cell containing fractions sterilized with radiation and a quencher of type I and type II photodynamic reactions; Bernard Horowitz, et al., 435/2, 173.1, 173.3; 604/4 [IMAGE AVAILABLE]
15. 5,705,151, Jan. 6, 1998, Gene therapy for T cell regulation; Steve W. Dow, et al., 424/93.21, 450; 435/7.2, 69.1, 172.3, 320.1; 514/44; 935/54, 55, 62, 71 [IMAGE AVAILABLE]
16. 5,698,405, Dec. 16, 1997, Method of reducing immunogenicity; David M. Goldenberg, 435/7.5; 424/9.34; 530/367, 402 [IMAGE AVAILABLE]
17. 5,698,178, Dec. 16, 1997, Polyspecific immunoconjugates and antibody composites for targeting the multidrug resistant phenotype; David M. Goldenberg, 424/1.49, 1.53, 9.341, 9.6 [IMAGE AVAILABLE]
18. 5,695,957, Dec. 9, 1997, Polypeptides and DNA encoding same, associated with **human** malaria parasites; Kathryn Jane Robson, 435/69.1, 252.3, 254.11, 320.1, 325, 348, 419; 514/12; 530/350, 395, 402; 536/23.5 [IMAGE AVAILABLE]
19. 5,693,771, Dec. 2, 1997, Methods for making nucleoside analogs; Petr

Alexander, et al., 536/18.6, 4.1, 17.1, 18.5, 26.7, 26.8, 26.9; 544/254, 258, 262, 265, 276, 277, 313, 314, 317 [IMAGE AVAILABLE]

20. 5,693,498, Dec. 2, 1997, DNA encoding a plerocercoid growth factor; Cleveland Kirk Phares, 435/69.4, 243, 320.1, 325; 536/23.51 [IMAGE AVAILABLE]

21. 5,693,472, Dec. 2, 1997, Detection of cryptosporidium parvum; Marilyn I. Steele, et al., 435/6, 91.2; 536/23.1, 24.3, 24.33 [IMAGE AVAILABLE]

22. 5,693,463, Dec. 2, 1997, Method of ordering sequence binding preferences of a DNA-binding molecule; Cynthia A. Edwards, et al., 435/6, 7.23; 536/23.1; 935/76, 77 [IMAGE AVAILABLE]

23. 5,693,325, Dec. 2, 1997, Peptide vaccines and methods relating thereto; Michael Kahn, 424/188.1, 185.1, 193.1, 194.1, 196.11; 530/317, 323, 403 [IMAGE AVAILABLE]

24. 5,690,938, Nov. 25, 1997, Oral immunization with multiple particulate antigen delivery system; Thomas H. Ermak, et al., 424/215.1; 435/69.3, 172.3 [IMAGE AVAILABLE]

25. 5,690,692, Nov. 25, 1997, Bio-active frequency generator and method; Janet E. Fleming, 607/50, 66 [IMAGE AVAILABLE]

26. 5,686,578, Nov. 11, 1997, Polyspecific immunoconjugates and antibody composites for targeting the multidrug resistant phenotype; David M. Goldenberg, 530/387.3, 388.2, 388.4, 388.8, 388.85, 389.1, 389.5, 389.7, 391.1, 391.9 [IMAGE AVAILABLE]

27. 5,686,281, Nov. 11, 1997, Chimeric receptor molecules for delivery of co-stimulatory signals; Margo R. Roberts, 435/172.3, 7.1, 7.2, 69.7; 536/23.4 [IMAGE AVAILABLE]

28. 5,683,692, Nov. 4, 1997, Use of RIPonucleases for treating parasitic and viral diseases; Theodore Taraschi, et al., 424/94.6, 183.1; 514/8, 12, 895; 530/370 [IMAGE AVAILABLE]

29. 5,681,724, Oct. 28, 1997, Parasitic helminth macrophage inhibitory factor nucleic acid molecules and uses thereof; Cynthia Ann Tripp, et al., 435/70.1, 172.3, 252.3, 320.1; 536/23.5, 24.31, 24.33 [IMAGE AVAILABLE]

30. 5,681,571, Oct. 28, 1997, Immunological tolerance-inducing agent; Jan Holmgren, et al., 424/236.1, 241.1, 275.1, 282.1, 810; 514/885; 530/868 [IMAGE AVAILABLE]

31. 5,681,557, Oct. 28, 1997, Use of interleukin-7 to induce monocytes/macrophages cytotoxic activity; Kenneth H. Grabstein, et al., 424/85.2; 514/2, 8, 885; 530/351 [IMAGE AVAILABLE]

32. 5,677,468, Oct. 14, 1997, Artemisinin dimer compounds having anticancer activity; Qun Y. Zheng, et al., 549/348 [IMAGE AVAILABLE]

33. 5,677,331, Oct. 14, 1997, Antimalarial compositions; Yiqing Zhou, et al., 514/450, 648, 895 [IMAGE AVAILABLE]

34. 5,674,911, Oct. 7, 1997, Antiinfective polyoxypropylene/polyoxyethylene copolymers and methods of use; R. Martin Emanuele, et al., 514/723; 568/624 [IMAGE AVAILABLE]

35. 5,674,717, Oct. 7, 1997, Rapid method for preferential coamplification of two different nucleic acid sequences using polymerase chain reaction; John W. Backus, et al., 435/91.2, 6 [IMAGE AVAILABLE]

36. 5,670,496, Sep. 23, 1997, Treatment for toxoplasmosis with a composition comprising a folate antagonist and a spiropiperidyl derivative of rifamycin S; Jack S. Remington, et al., 514/183, 256 [IMAGE AVAILABLE]

37. 5,665,707, Sep. 9, 1997, Treatment for toxoplasmosis with a composition comprising a lincosamide and a spiropiperidyl derivative of rifamycik S; Jack S. Remington, et al., 514/24, 183 [IMAGE AVAILABLE]

38. 5,665,543, Sep. 9, 1997, Method of discovering chemicals capable of functioning as gene expression modulators; J. Gordon Foulkes, et al., 435/6, 69.1, 320.1; 935/77, 78 [IMAGE AVAILABLE]

39. 5,663,380, Sep. 2, 1997, Cysteine protease inhibitors containing heterocyclic leaving groups; Mary P. Zimmerman, et al., 549/477, 475, 476 [IMAGE AVAILABLE]

40. 5,663,317, Sep. 2, 1997, Microorganism having attenuated invasiveness; Stanley Falkow, et al., 536/23.7; 935/9, 11 [IMAGE AVAILABLE]

41. 5,663,155, Sep. 2, 1997, Compositions for the treatment of parasitic infections; Ronald P. McCaffrey, et al., 514/45, 46; 536/27.21, 27.6, 27.61, 27.62, 27.63, 27.7, 27.8, 27.81 [IMAGE AVAILABLE]

42. 5,662,908, Sep. 2, 1997, Invasive microorganisms; Stanley Falkow, et al., 424/200.1, 235.1, 258.1; 435/252.3, 252.8 [IMAGE AVAILABLE]

43. 5,659,023, Aug. 19, 1997, Nucleotide analogues; Petr Alexander, et al., 536/22.1; 435/6, 91.2; 536/25.3, 26.1 [IMAGE AVAILABLE]

44. 5,658,762, Aug. 19, 1997, DNA molecules, expression vectors and host cells expressing antigenized antibodies; Maurizio Zanetti, et al., 435/69.6, 172.3, 326, 328; 530/387.1, 387.3; 536/23.53 [IMAGE AVAILABLE]

45. 5,658,322, Aug. 19, 1997, Bio-active frequency generator and method; Janet E. Fleming, 607/50, 66, 67 [IMAGE AVAILABLE]

46. 5,654,176, Aug. 5, 1997, Fusion proteins containing glutathione-s-transferase; Donald Bruce Smith, 435/69.7, 193, 252.3, 252.33, 320.1, 348; 530/350; 536/23.4 [IMAGE AVAILABLE]

47. 5,652,356, Jul. 29, 1997, Inverted chimeric and hybrid oligonucleotides; Sudhir Agrawal, 536/24.5, 25.3 [IMAGE AVAILABLE]

48. 5,650,405, Jul. 22, 1997, Treatment for toxoplasmosis with a composition comprising a sulfonamide and a spiropiperidyl derivative of rifamycin S.; Jack S. Remington, et al., 514/183, 256, 269, 370, 374, 601, 602 [IMAGE AVAILABLE]

49. 5,650,153, Jul. 22, 1997, Recombinant Marek's disease virus and vaccine; Toyokazu Ishikawa, et al., 424/229.1; 435/320.1 [IMAGE AVAILABLE]

50. 5,650,152, Jul. 22, 1997, Liposome immunoadjuvants containing IL-2; Peter M. Anderson, et al., 424/195.11, 85.2, 155.1, 184.1, 200.1, 201.1, 204.1, 208.1, 234.1, 275.1, 283.1, 423, 450, 812 [IMAGE AVAILABLE]

51. 5,648,461, Jul. 15, 1997, Synthetic analogs of thrombospondin and therapeutic use thereof; Jacob Eval, et al., 530/329, 327, 330 [IMAGE AVAILABLE]

52. 5,648,345, Jul. 15, 1997, Treatment for toxoplasmosis with a composition comprising a macrolide antibiotic and a spiropiperidyl

derivative of rifamycin S; Jack S. Remington, et al., 514/183, 212 [IMAGE AVAILABLE]

53. 5,646,150, Jul. 8, 1997, Methods of using lavendamycin analogs; Mohammad Behforouz, et al., 514/254, 255, 256, 292; 544/238, 333, 361; 546/86, 87 [IMAGE AVAILABLE]

54. 5,643,772, Jul. 1, 1997, Cryptosporidium hybrid vector and transformed host cells; Carolyn Petersen, et al., 435/172.3, 252.3; 536/23.7; 935/12 [IMAGE AVAILABLE]

55. 5,643,718, Jul. 1, 1997, Transfection and genetic manipulations in obligate intracellular parasites; Kami Kim, et al., 435/6, 69.1, 172.3, 258.1 [IMAGE AVAILABLE]

56. 5,643,599, Jul. 1, 1997, Intracellular delivery of macromolecules; Kyung-Dall Lee, et al., 424/450; 436/829 [IMAGE AVAILABLE]

57. 5,641,769, Jun. 24, 1997, treatment for toxoplasmosis with a composition containing a hydroxynaphthoquinone and a spiropiperidyl derivative of rifamycin S.; Jack S. Remington, et al., 514/183, 682 [IMAGE AVAILABLE]

58. 5,632,999, May 27, 1997, Sustained release pyriproxyfen compositions for **parasite** control; Thomas A. Miller, 424/411; 514/68, 86, 98, 136, 318, 345, 637 [IMAGE AVAILABLE]

59. 5,631,278, May 20, 1997, Methods of killing protozoal parasites; Theodore F. Taraschi, et al., 514/449 [IMAGE AVAILABLE]

60. 5,631,271, May 20, 1997, Methods and preparations for the treatment and prophylaxis of metabolic disturbances; Willem J. Serfontein, 514/345, 351 [IMAGE AVAILABLE]

61. 5,629,158, May 13, 1997, Solid phase diagnosis of medical conditions; Mathias Uhlen, 435/6, 91.2; 935/77, 78 [IMAGE AVAILABLE]

62. 5,624,913, Apr. 29, 1997, Method reducing TNF-alpha in mammals with cerebral malaria; Richard A. Proctor, et al., 514/47, 895; 536/26.23, 26.26, 27.63 [IMAGE AVAILABLE]

63. 5,618,532, Apr. 8, 1997, *Dirofilaria immitis* Gp29 proteins and uses thereof; Cynthia A. Tripp, et al., 424/94.4; 435/192; 530/403 [IMAGE AVAILABLE]

64. 5,616,564, Apr. 1, 1997, Antiparasitic oligonucleotides active against drug resistant malaria; Eliezer Rapaport, et al., 514/44; 435/6; 536/23.1, 24.3, 24.31, 24.32, 24.33, 24.5, 25.1 [IMAGE AVAILABLE]

65. 5,614,652, Mar. 25, 1997, Particulates; Aaron G. Filler, et al., 556/136, 138 [IMAGE AVAILABLE]

66. 5,614,551, Mar. 25, 1997, Inhibitors of fatty acid synthesis as antimicrobial agents; James D. Dick, et al., 514/454; 424/417, 450; 514/558, 559, 560 [IMAGE AVAILABLE]

67. 5,614,504, Mar. 25, 1997, Method of making inosine monophosphate derivatives and immunopotentiating uses thereof; John W. Hadden, et al., 514/45; 536/26.7, 27.8 [IMAGE AVAILABLE]

68. 5,612,016, Mar. 18, 1997, Conjugates of antibodies and bifunctional ligands; Gary L. Griffiths, et al., 424/1.49, 1.53; 530/391.3, 391.5, 402, 408, 409 [IMAGE AVAILABLE]

69. 5,610,192, Mar. 11, 1997, Inhibitors of **metazoan parasite**

70. 5,607,863, Mar. 4, 1997, Barrier-controlled assay device; Howard M. Chandler, 436/518; 422/56, 57, 58, 61, 104; 435/7.92, 7.93, 7.94, 805, 969, 970; 436/165, 170, 514, 810 [IMAGE AVAILABLE]

71. 5,601,978, Feb. 11, 1997, Oligonucleotides and methods for the detection of chlamydia trachomatis; John D. Burczak, et al., 435/6, 91.2; 536/24.32, 24.33; 935/77, 78 [IMAGE AVAILABLE]

72. 5,601,825, Feb. 11, 1997, Therapeutic conjugates of toxins and drugs; Hans J. Hansen, et al., 424/183.1, 178.1; 530/391.7, 391.9 [IMAGE AVAILABLE]

73. 5,597,809, Jan. 28, 1997, Treatment of optic neuritis; Evan B. Dreyer, 514/34, 145, 148, 224.8, 231.2, 233.2, 256, 260, 277, 278, 299, 312, 314, 317, 345, 469, 492, 493, 498, 501, 504, 530, 601, 602, 608, 613, 616, 646, 647, 662, 664, 665, 706, 707, 724, 731, 734, 744, 745, 757, 759, 764, 912, 913, 914, 915 [IMAGE AVAILABLE]

74. 5,591,721, Jan. 7, 1997, Method of down-regulating gene expression; Sudhir Agrawal, et al., 514/44; 424/78.15, 78.38, 601, 713; 536/24.5 [IMAGE AVAILABLE]

75. 5,589,585, Dec. 31, 1996, DNA fragments, probes and amplification primers of the 65 kD antigen of mycobacteria; Claude Mabilat, et al., 536/24.32, 23.7, 24.33 [IMAGE AVAILABLE]

76. 5,583,202, Dec. 10, 1996, Antigenized antibodies and genes; Maurizio Zanetti, 530/387.3, 387.1 [IMAGE AVAILABLE]

77. 5,578,637, Nov. 26, 1996, Methods of inhibition or killing **cancer** cells using an endoperoxide; Henry C. Lai, et al., 514/450, 6, 23, 53, 54, 59, 451, 452 [IMAGE AVAILABLE]

78. 5,578,444, Nov. 26, 1996, Sequence-directed DNA-binding molecules compositions and methods; Cynthia A. Edwards, et al., 435/6, 7.23; 536/23.1; 935/76, 77 [IMAGE AVAILABLE]

79. 5,573,916, Nov. 12, 1996, Immunogenic constructs comprising b-cell and t-cell epitopes on common carrier; John C. Cheronis, et al., 435/7.1; 424/204.1, 208.1; 530/350 [IMAGE AVAILABLE]

80. 5,571,698, Nov. 5, 1996, Directed evolution of novel binding proteins; Robert C. Ladner, et al., 435/69.7, 6, 69.1, 172.3, 252.3, 320.1 [IMAGE AVAILABLE]

81. 5,571,687, Nov. 5, 1996, Modulators of multidrug resistance transporters; Patrick J. Casey, et al., 435/29, 4, 7.1, 7.21, 15, 34, 69.1, 69.7; 514/1, 22, 23 [IMAGE AVAILABLE]

82. 5,571,515, Nov. 5, 1996, Compositions and methods for use of IL-12 as an adjuvant; Phillip Scott, et al., 424/208.1, 204.1, 234.1; 530/350 [IMAGE AVAILABLE]

83. 5,569,603, Oct. 29, 1996, *Dirofilaria immitis* GP29 proteins, nucleic acid molecules and uses thereof; Cynthia A. Tripp, et al., 435/252.3, 192; 536/23.2, 23.7 [IMAGE AVAILABLE]

84. 5,567,738, Oct. 22, 1996, Use of 2-(4-(4-chlorophenyl)cyclohexyl)-3-hydroxy-1,4-Naphthoquinone for the treatment of **cancer**; Alan T. Hudson, 514/682 [IMAGE AVAILABLE]

85. 5,565,548, Oct. 15, 1996, Pre-S gene coded peptide hepatitis B immunogens and synthetic lipid vesicle carriers; Alexander R. Neurath, et

al., 530/324; 424/184.1, 185.1, 204.1, 227.1, 234.1, 265.1, 275.1, 278.1; 530/325, 326, 327, 345, 402, 403, 404, 810 [IMAGE AVAILABLE]

86. 5,565,327, Oct. 15, 1996, Methods of diagnosing parasitic infections and of testing drug susceptibility of parasites; Arno L. Greenleaf, et al., 435/21, 24, 34; 436/811 [IMAGE AVAILABLE]

87. 5,565,203, Oct. 15, 1996, Hepatitis A virus in a reconstituted influenza virosome and use as a vaccine; Reinhard Gluck, et al., 424/226.1, 278.1, 281.1, 283.1, 450 [IMAGE AVAILABLE]

88. 5,563,125, Oct. 8, 1996, 5'-deoxy-5'-(substituted)alkylthioribose compounds and their pharmaceutical compositions; Janice R. Sufrin, et al., 514/23; 536/122 [IMAGE AVAILABLE]

89. 5,561,164, Oct. 1, 1996, Method of treating protozoal infections caused by microsporidia; Winston E. Gutteridge, et al., 514/682 [IMAGE AVAILABLE]

90. 5,559,156, Sep. 24, 1996, Method for treating animals infected with Babesia spp.; Winston E. Gutteridge, et al., 514/682 [IMAGE AVAILABLE]

91. 5,559,145, Sep. 24, 1996, 1,2,4-trioxane derivatives; Charles W. Jefford, 514/452; 549/361, 364 [IMAGE AVAILABLE]

92. 5,559,011, Sep. 24, 1996, Nucleic acids encoding membrane-associated immunogens of mycobacterial and corresponding probes, vectors, and transformed host cells; Archana Kapoor, et al., 435/69.3, 252.3, 254.11, 320.1; 536/23.7, 24.32 [IMAGE AVAILABLE]

93. 5,554,372, Sep. 10, 1996, Methods and vaccines comprising surface-active copolymers; Robert L. Hunter, 424/280.1, 278.1, 279.1, 283.1; 514/723, 772.3 [IMAGE AVAILABLE]

94. 5,545,516, Aug. 13, 1996, Inactivation of extracellular enveloped viruses in blood and blood components by phenothiazin-5-ium dyes plus light; Stephen J. Wagner, 435/2; 424/529, 530, 531, 532, 533 [IMAGE AVAILABLE]

95. 5,543,391, Aug. 6, 1996, Covalent microparticle-drug conjugates for biological targeting; Milton B. Yatvin, et al., 514/2; 424/450; 514/78; 530/300, 329, 331; 536/21, 51 [IMAGE AVAILABLE]

96. 5,543,390, Aug. 6, 1996, Covalent microparticle-drug conjugates for biological targeting; Milton B. Yatvin, et al., 514/2; 424/450; 530/300, 329, 331; 536/28.2, 51, 78 [IMAGE AVAILABLE]

97. 5,543,143, Aug. 6, 1996, Method for activating macrophages/monocytes; Steven G. Reed, 424/130.1, 141.1, 142.1, 143.1, 145.1, 146.1, 193.1, 806 [IMAGE AVAILABLE]

98. 5,541,297, Jul. 30, 1996, Therapeutic conjugates of toxins and drugs; Hans J. Hansen, et al., 530/391.7; 424/178.1, 183.1; 530/391.1 [IMAGE AVAILABLE]

99. 5,541,292, Jul. 30, 1996, **Plasmodium** vivax and **Plasmodium** knowlesi Duffy receptor; Louis H. Miller, et al., 530/350, 806 [IMAGE AVAILABLE]

100. 5,541,100, Jul. 30, 1996, Chimeric rhinoviruses; Edward V. Arnold, et al., 435/235.1; 424/93.6; 435/172.3 [IMAGE AVAILABLE]

101. 5,529,994, Jun. 25, 1996, Treatment for toxoplasmosis; Jack S. Remington, et al., 514/183, 29 [IMAGE AVAILABLE]

102. 5,527,700, Jun. 18, 1996, Target antigens of transmission blocking antibodies for malaria parasites; David C. Kaslow, et al., 435/252.3, 69.3, 254.2, 320.1; 536/23.7; 935/12, 65 [IMAGE AVAILABLE] ✓

103. 5,525,611, Jun. 11, 1996, Lavendamycin analogs and methods of making and using them; Mohammad Behforouz, et al., 514/292, 254, 255, 256; 544/238, 333, 361; 546/86, 87 [IMAGE AVAILABLE]

104. 5,525,338, Jun. 11, 1996, Detection and therapy of lesions with biotin/avidin conjugates; David M. Goldenberg, 424/178.1, 1.41, 1.49, 85.1, 94.3, 183.1, 193.1; 514/21 [IMAGE AVAILABLE]

105. 5,508,386, Apr. 16, 1996, Antigenized antibodies and genes; Maurizio Zanetti, et al., 530/387.3; 435/69.6, 172.3; 530/387.1 [IMAGE AVAILABLE]

106. 5,504,005, Apr. 2, 1996, Recombinant mycobacterial vaccine; Barry R. Bloom, et al., 435/253.1, 69.1, 69.3, 69.51, 69.52, 172.1, 172.3, 183, 189, 207, 252.33, 320.1 [IMAGE AVAILABLE]

107. 5,503,983, Apr. 2, 1996, Method of diagnosis of giardiasis using Giardia lamblia-specific stool antigen; John D. Rosoff, et al., 435/7.22, 7.92, 7.94, 967; 530/389.5, 822 [IMAGE AVAILABLE] ✓

108. 5,503,979, Apr. 2, 1996, Method of using replicatable hybridizable recombinant RNA probes; Fred R. Kramer, et al., 435/6, 91.1, 91.2, 91.21, 91.3, 91.32, 91.5, 172.3, 948; 436/501; 536/23.1, 24.1, 24.3, 24.31, 24.32, 24.33; 935/17, 31, 78, 88 [IMAGE AVAILABLE]

109. 5,500,366, Mar. 19, 1996, Polynucleotide encoding T-cell epitopes of the protein TraT; Gregory J. Russell-Jones, et al., 435/252.3; 424/190.1, 192.1; 435/69.3, 254.11, 320.1; 536/23.4, 23.7 [IMAGE AVAILABLE]

110. 5,489,590, Feb. 6, 1996, Method of treating with therapeutic composition comprising photoactive compound; Kirpal S. Gulliya, et al., 514/224.8; 204/157.7, 157.72; 424/484, 486, 487; 514/2, 150, 229.8, 250, 270, 274, 297, 314, 367, 410, 414, 415, 638 [IMAGE AVAILABLE]

111. 5,487,984, Jan. 30, 1996, Processes for producing tumor necrosis factor; Bernard Allet, et al., 435/69.5, 252.33, 254.11, 320.1; 536/23.5, 24.1 [IMAGE AVAILABLE]

112. 5,486,623, Jan. 23, 1996, Cysteine protease inhibitors containing heterocyclic leaving groups; Mary P. Zimmerman, et al., 549/417; 544/316; 546/300; 548/532; 549/479 [IMAGE AVAILABLE]

113. 5,482,698, Jan. 9, 1996, Detection and therapy of lesions with biotin/avidin polymer conjugates; Gary L. Griffiths, 424/1.41, 1.45, 1.49, 1.69, 9.34, 9.35, 9.36, 9.4, 9.6, 78.08; 514/387 [IMAGE AVAILABLE]

114. 5,476,928, Dec. 19, 1995, Modified nucleotides and polynucleotides and complexes form therefrom; David C. Ward, et al., 536/24.3; 435/6; 436/536; 536/24.31, 24.32, 26.6, 26.7, 26.8 [IMAGE AVAILABLE]

115. 5,474,769, Dec. 12, 1995, Treatment of microbial infection by monocyte stimulation with interleukin-7; Kenneth Grabstein, et al., 424/85.2; 514/2; 530/351 [IMAGE AVAILABLE]

116. 5,468,648, Nov. 21, 1995, Interrupted-flow assay device; Howard M. Chandler, 436/518; 422/58, 60; 435/7.1, 7.92, 7.93, 7.94, 7.95, 970, 973, 974; 436/514, 525, 530, 538, 540, 807, 810 [IMAGE AVAILABLE]

117. 5,468,485, Nov. 21, 1995, Avirulent microbes and uses therefor; Roy Curtiss, III, 424/184.1, 93.1, 93.2, 200.1; 435/69.1, 71.1, 172.1, 252.3,

118. 5,466,711, Nov. 14, 1995, Medicaments; Victoria S. Latter, et al., 514/510; 552/298 [IMAGE AVAILABLE]

119. 5,463,024, Oct. 31, 1995, Fusion proteins and particles; Alan J. Kingsman, et al., 530/350; 435/69.7, 172.3, 320.1; 536/23.4 [IMAGE AVAILABLE]

120. 5,459,063, Oct. 17, 1995, **Plasmodium** falciparum ribonucleotide reductase DNA; Barry S. Cooperman, et al., 435/252.3, 189, 320.1; 536/23.2 [IMAGE AVAILABLE]

121. 5,449,767, Sep. 12, 1995, Modified polynucleotides and methods of preparing same; David C. Ward, et al., 536/24.3, 25.32, 25.6, 26.6 [IMAGE AVAILABLE]

122. 5,439,924, Aug. 8, 1995, Systemic control of parasites; Thomas A. Miller, 514/345; 424/405, 442; 514/226.8, 242, 247, 255, 269, 365, 450; 544/239, 241 [IMAGE AVAILABLE] *V*

123. 5,429,922, Jul. 4, 1995, Composition and method for distinguishing virulent and non-virulent toxoplasma infections; L. David Sibley, et al., 435/6, 320.1; 536/23.1; 935/76, 77, 78 [IMAGE AVAILABLE] *V*

124. 5,426,100, Jun. 20, 1995, Piptide fragments and analogs of thrombospondin; Alan H. Deutch, et al., 514/15, 12, 13, 14; 530/324, 325, 326, 327 [IMAGE AVAILABLE]

125. 5,411,948, May 2, 1995, Use of host cell phospholipids for inhibiting microbial colonization; Clifford A. Lingwood, et al., 514/78, 25, 54, 120, 121 [IMAGE AVAILABLE]

126. 5,403,934, Apr. 4, 1995, Heterocyclic compounds; John F. Batchelor, et al., 546/290, 296 [IMAGE AVAILABLE]

127. 5,403,484, Apr. 4, 1995, Viruses expressing chimeric binding proteins; Robert C. Ladner, et al., 435/235.1, 69.7, 172.3, 252.3, 320.1; 530/350; 536/23.4 [IMAGE AVAILABLE]

128. 5,389,368, Feb. 14, 1995, Avirulent microbes and uses therefor; Roy Curtiss, III, 424/93.2, 93.4; 435/172.3, 320.1; 935/72, 73 [IMAGE AVAILABLE]

129. 5,387,744, Feb. 7, 1995, Avirulent microbes and uses therefor: *Salmonella typhi*; Roy Curtiss, III, et al., 424/235.1, 258.1; 435/172.3, 252.3, 252.33, 320.1, 879; 935/60, 62, 72 [IMAGE AVAILABLE]

130. 5,376,369, Dec. 27, 1994, Vaccine adjuvant; Anthony C. Allison, et al., 424/278.1, 279.1, 283.1; 436/543; 514/8, 885; 530/322, 806, 815 [IMAGE AVAILABLE]

131. 5,374,623, Dec. 20, 1994, Cysteine protease inhibitors effective for in vivo use; Mary P. Zimmerman, et al., 514/17; 530/330, 331, 332; 544/168; 560/10, 18, 37, 45 [IMAGE AVAILABLE]

132. 5,370,873, Dec. 6, 1994, Therapeutic compounds derived from the neem tree; Iroka J. Udeinya, 424/195.1; 514/896, 934 [IMAGE AVAILABLE]

133. 5,367,059, Nov. 22, 1994, Cys-Ser-Val-Thr-Cys-Gly specific tumor cell adhesion receptor; George P. Tuszynski, et al., 530/395, 350 [IMAGE AVAILABLE]

134. 5,356,927, Oct. 18, 1994, Methods of treating **plasmodium** and *babesia* parasitic infections; Theodore F. Taraschi, et al., 514/449, 895 *V*

[ IMAGE AVAILABLE ]

135. 5,356,797, Oct. 18, 1994, Membrane expression of heterologous genes; David W. Niesel, et al., 435/69.3, 69.1, 172.1, 172.3, 252.3, 320.1; 536/23.1, 23.7, 24.3 [ IMAGE AVAILABLE ]

136. 5,342,924, Aug. 30, 1994, Extracellular segments of **human** .epsilon. immunoglobulin anchoring peptides and antibodies specific therefor; Tse W. Chang, 530/387.9; 435/70.21; 530/388.1, 388.85, 389.1 [ IMAGE AVAILABLE ]

137. 5,338,842, Aug. 16, 1994, Yersinia INV nucleic acids; Ralph R. Isberg, et al., 536/23.7; 435/6, 69.1, 252.3, 252.33, 320.1; 536/24.32 [ IMAGE AVAILABLE ]

138. 5,334,379, Aug. 2, 1994, Cytokine and hormone carriers for conjugate vaccines; Subramonia Pillai, et al., 424/85.2, 85.1, 85.4, 197.11, 244.1, 250.1, 831; 530/351, 395, 404, 405, 406, 411 [ IMAGE AVAILABLE ]

~~139. 5,332,747, Jul. 26, 1994, Method for potentiating primary drugs in treating multidrug resistant parasitic disease cells; Knox Van Dyke, 514/280, 227.8, 281 [ IMAGE AVAILABLE ]~~

140. 5,332,567, Jul. 26, 1994, Detection and treatment of infections with immunoconjugates; M. David Goldenberg, 424/1.49, 1.53, 9.341, 136.1, 159.1, 164.1, 178.1 [ IMAGE AVAILABLE ]

141. 5,330,754, Jul. 19, 1994, Membrane-associated immunogens of mycobacteria; Archana Kapoor, et al., 424/190.1, 248.1; 435/69.3, 195; 514/2; 530/350; 536/23.7 [ IMAGE AVAILABLE ]

142. 5,328,930, Jul. 12, 1994, Treatment of microsporidial and acanthamoeba keratoconjunctivitis with topical fumagillin; Louis A. Wilson, 514/475, 912, 914 [ IMAGE AVAILABLE ]

143. 5,328,824, Jul. 12, 1994, Methods of using labeled nucleotides; David C. Ward, et al., 435/6, 7.1, 91.2; 536/22.1, 25.3, 25.32; 935/78 [ IMAGE AVAILABLE ]

144. 5,310,762, May 10, 1994, Medicaments; Victoria S. Latter, et al., 514/682 [ IMAGE AVAILABLE ]

145. 5,310,654, May 10, 1994, Method for determining virulence of Yersinia; Ralph R. Isberg, et al., 435/6; 536/23.7; 935/78 [ IMAGE AVAILABLE ]

146. 5,294,441, Mar. 15, 1994, Avirulent microbes and uses therefor: salmonella typhi; Roy Curtiss, III, 424/200.1, 235.1, 258.1; 435/172.3, 252.3, 252.33, 320.1, 879; 935/60, 62, 72 [ IMAGE AVAILABLE ]

147. 5,279,966, Jan. 18, 1994, Cloning, expression and uses of a novel secreted protein, F-spondin; Thomas.M. Jessell, et al., 435/320.1, 69.1, 252.3; 530/395, 399; 536/23.5 [ IMAGE AVAILABLE ]

~~148. 5,278,173, Jan. 11, 1994, Method of inhibiting the activity of **human** immunodeficiency virus (**HIV**) in vivo; Michael H. Davis, 514/312, 885, 895 [ IMAGE AVAILABLE ]~~

~~149. 5,273,970, Dec. 28, 1993, Treatment of protozoal diseases; Nicholas McHardy, 514/157, 155, 158, 272 [ IMAGE AVAILABLE ]~~

~~150. 5,270,052, Dec. 14, 1993, Methods and compositions for treatment of infection by intracellular parasites; Jeffrey A. Gelfand, et al., 424/450; 436/829; 514/21 [ IMAGE AVAILABLE ]~~

151. 5,260,416, Nov. 9, 1993, Antigenic epitopes present on membrane-bound but not secreted IgE; Tse-wen Chang, 530/327; 424/131.1, 139.1, 140.1, 153.1, 805, 810; 530/387.2, 387.3, 388.73, 862, 868 [IMAGE AVAILABLE]

152. 5,254,671, Oct. 19, 1993, Extracellular segments of **human** e immunoglobulin anchoring peptides and antibodies specific therefor; Tse W. Chang, 530/324, 350, 386; 536/23.53 [IMAGE AVAILABLE]

153. 5,254,572, Oct. 19, 1993, Method and composition for supplementing vitamin B6 where the PN-PLP pathway is disturbed; Willem J. Serfontein, 514/345, 351 [IMAGE AVAILABLE]

154. 5,248,419, Sep. 28, 1993, Sewage sludge treatment with gas injection; Charles A. Long, Jr., et al., 210/218, 219; 261/89 [IMAGE AVAILABLE]

155. 5,246,930, Sep. 21, 1993, 9-substituted compounds of 3.alpha., 11.alpha.-epoxy-3,4,5,5a.alpha.,6,7,8,8a,9,11,11a-undecahydro-3.beta.,6.alpha.,9-trimethylfurano[3,4-j][1,2]benzodioxepin, processes for their preparation and their use as antiprotozoal and antiviral agents; Bindumadhavan Venugopalan, et al., 514/232.8, 253, 338, 348, 450; 544/148, 238, 378; 549/348 [IMAGE AVAILABLE]

156. 5,246,844, Sep. 21, 1993, Virulence associated proteins in *Borrelia burgdorferi* (BB); Steven J. Norris, et al., 435/172.3, 252.3, 252.33, 320.1; 536/23.7, 24.32, 24.33 [IMAGE AVAILABLE]

157. 5,246,596, Sep. 21, 1993, Method of treating waste to make it suitable for ultimate disposal; Philip N. Baldwin, Jr., et al., 210/750; 106/697; 210/764 [IMAGE AVAILABLE]

158. 5,239,066, Aug. 24, 1993, *Yersinia* ail nucleic acids; St. Geme, III: Joseph W., et al., 536/23.7; 435/6, 69.1, 252.3, 252.33, 320.1; 536/24.32; 935/11, 79 [IMAGE AVAILABLE]

159. 5,231,168, Jul. 27, 1993, Malaria antigen; Morten Dziegiel, et al., 530/350, 300 [IMAGE AVAILABLE]

160. 5,229,490, Jul. 20, 1993, Multiple antigen peptide system; James P. Tam, 530/324; 424/185.1, 186.1, 188.1, 189.1, 190.1, 191.1, 193.1, 196.11, 197.11; 530/323, 325, 326, 327, 328, 345, 403, 405, 409; 930/30, 210, 221 [IMAGE AVAILABLE]

161. 5,225,556, Jul. 6, 1993, Chemical probes for left-handed DNA and for A-DNA; chiral metal complexes as Z-specific antitumor agents and as double strand cleavers; Jacqueline K. Barton, 546/88; 204/157.71; 435/6, 52, 91.53, 810; 436/501; 536/23.1, 26.6; 546/10; 935/88 [IMAGE AVAILABLE]

162. 5,225,184, Jul. 6, 1993, Medicaments; Victoria S. Latter, et al., 424/45; 514/682 [IMAGE AVAILABLE]

163. 5,223,409, Jun. 29, 1993, Directed evolution of novel binding proteins; Robert C. Ladner, et al., 435/69.7, 5, 69.1, 172.3, 252.3, 320.1; 530/387.3, 387.5 [IMAGE AVAILABLE]

164. 5,217,898, Jun. 8, 1993, Expression of the *P. falciparum* transmission-blocking antigen in yeast; David C. Kaslow, et al., 435/254.2, 69.1, 69.3, 172.3, 235.1, 320.1; 530/350; 536/23.7; 935/10, 28, 37, 56, 65, 69 [IMAGE AVAILABLE]

165. 5,206,268, Apr. 27, 1993, Medicaments; Victoria S. Latter, et al., 514/548 [IMAGE AVAILABLE]

166. 5,198,347, Mar. 30, 1993, DNA encoding **Plasmodium** vivax and **Plasmodium** knowlesi Duffy receptor; Louis H. Miller, et al., 435/69.1, 252.3, 320.1; 530/350; 536/23.7 [IMAGE AVAILABLE]

167. 5,190,918, Mar. 2, 1993, Peptide fragments and analogs of thrombospondin and methods of use; Alan H. Deutch, et al., 514/15, 12, 13, 14; 530/324, 325, 326, 327, 328 [IMAGE AVAILABLE]

168. 5,185,146, Feb. 9, 1993, Recombinant MVA vaccinia virus; Werner Altenburger, 424/199.1, 232.1, 272.1; 435/69.1, 69.3, 172.1, 172.2, 172.3, 235.1, 236, 237, 239, 320.1; 935/12, 32, 57, 65 [IMAGE AVAILABLE]

169. 5,180,714, Jan. 19, 1993, Adenosine compounds for the treatment of diseases caused by parasitic protozoa; Janice R. Sufrin, et al., 514/46, 23, 45; 536/27.6 [IMAGE AVAILABLE]

170. 5,173,293, Dec. 22, 1992, Anti-T-cell antibodies as adjuvants; Sherree L. Friend, et al., 424/178.1, 154.1, 173.1, 193.1; 436/547, 548; 530/387.3, 388.22, 388.75, 389.6, 391.7, 403, 405, 406, 806, 807, 808, 809 [IMAGE AVAILABLE]

171. 5,169,862, Dec. 8, 1992, Analogs of viscosin and their uses; Terrence Burke, Jr., et al., 514/450; 530/321, 328; 549/351; 562/564, 577 [IMAGE AVAILABLE]

172. 5,157,024, Oct. 20, 1992, Method of enhancing the activity of phagocytes including macrophages, modulating the cellular or humoral immune response, and reducing the adverse effects of stress in warm blooded animals; Paul Gordon, 514/23, 25, 885, 889, 921; 536/17.4, 17.6, 17.9, 120 [IMAGE AVAILABLE]

173. 5,147,563, Sep. 15, 1992, Sewage sludge treatment with gas injection; Charles A. Long, Jr., et al., 210/758, 760, 764 [IMAGE AVAILABLE]

174. 5,112,869, May 12, 1992, Substituted 1-phenylnaphthalenes; Kyoichi A. Watanabe, et al., 514/641, 700, 717, 721, 732, 841, 842, 843, 883, 908; 564/270; 568/441, 632, 633, 734, 737, 808 [IMAGE AVAILABLE]

175. 5,112,749, May 12, 1992, Vaccines for the malaria circumsporozoite protein; Robert N. Brey, III, et al., 435/172.3, 69.1, 252.3, 320.1, 879; 530/350; 536/23.4, 23.7, 24.1; 935/12, 27, 41, 56, 65, 72 [IMAGE AVAILABLE]

176. 5,106,618, Apr. 21, 1992, Method of treating protozoal gastrointestinal disorders by administering hyperimmune milk product; Lee R. Beck, et al., 424/157.1, 163.1, 203.1, 535; 514/2, 8, 12, 21; 530/389.1, 389.5, 832 [IMAGE AVAILABLE]

177. 5,091,311, Feb. 25, 1992, The production of KSB-1939 macrolides using *STR eptomyces hygroskopicus*; Hideki Katoh, et al., 435/119; 514/450 [IMAGE AVAILABLE]

178. 5,089,479, Feb. 18, 1992, Adhesion of *Mycoplasma pneumoniae* and *Mycoplasma hominis* to sulfatide; Howard C. Krivan, et al., 514/25; 435/101, 103, 176, 177, 182, 800, 870; 514/54, 59; 536/4.1, 112 [IMAGE AVAILABLE]

179. 5,087,453, Feb. 11, 1992, Method for the treatment of bacterial caused weight loss and/or hypoglycemia; Gideon Strassmann, 424/450, 85.1; 514/2; 530/399 [IMAGE AVAILABLE]

180. 5,041,385, Aug. 20, 1991, Vector expressing fusion proteins and particles; Alan J. Kingsman, et al., 435/320.1; 424/192.1, 210.1; 435/69.3, 69.7, 91.41, 170, 171, 172.1, 172.3, 235.1, 252.3, 254.21;

436/543; 536/23.4, 23.7; 935/9, 12, 22, 28, 47, 59, 60, 69 [IMAGE AVAILABLE]

181. 5,041,379, Aug. 20, 1991, *Heliothis expression systems*; Malcolm J. Fraser, et al., 435/235.1, 69.1, 70.1, 172.3, 320.1; 536/23.2, 23.6, 23.72; 935/3, 6, 9, 22, 33, 34, 47, 48, 59, 60, 61, 66, 70 [IMAGE AVAILABLE]

182. 5,030,200, Jul. 9, 1991, *Method for eradicating infectious biological contaminants in body tissues*; Millard M. Judy, et al., 604/5; 424/529 [IMAGE AVAILABLE]

183. 5,019,384, May 28, 1991, *Immunonodulating compositions and their use*; Malcolm L. Gefter, et al., 424/184.1, 185.1, 186.1, 190.1, 204.1, 234.1, 265.1, 272.1 [IMAGE AVAILABLE]

184. 5,008,373, Apr. 16, 1991, *Fusion proteins and particles*; Alan J. Kingsman, et al., 530/350; 435/69.7, 170, 171, 172.3, 233, 252.3, 254.2, 254.21, 320.1; 530/351, 412; 536/23.4; 935/10, 12, 22, 59, 66 [IMAGE AVAILABLE]

185. 4,981,874, Jan. 1, 1991, *Medicaments*; Victoria S. Latter, et al., 514/682 [IMAGE AVAILABLE]

186. 4,980,473, Dec. 25, 1990, *Chemical probes for left-handed DNA and chiral metal complexes as Z-specific anti-tumor agents*; Jacqueline K. Barton, 546/10; 987/5 [IMAGE AVAILABLE]

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188. 4,946,849, Aug. 7, 1990, *Method for the treatment of malaria*; Michael T. Makler, 514/313 [IMAGE AVAILABLE]

189. 4,939,166, Jul. 3, 1990, *Antibiotic KSB-1939 compounds as well as pesticidal agents containing same*; Hideki Katoh, et al., 514/450; 549/264 [IMAGE AVAILABLE]

190. 4,939,088, Jul. 3, 1990, *Sustained production of recombinant gamma interferon using an Epstein-Barr virus replicon*; Janet M. Young, et al., 435/69.51; 424/85.5; 435/320.1, 364 [IMAGE AVAILABLE]

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193. 4,906,564, Mar. 6, 1990, *Antigenic determinants recognized by antibodies obtained using a pathogenic agent or a derivative thereof that presents a restricted set of antigens*; Jeffery A. Lyon, et al., 435/7.22, 5, 29; 530/350, 388.6, 412, 413 [IMAGE AVAILABLE]

194. 4,902,431, Feb. 20, 1990, *Method for treating wastewater sludge*; John P. Nicholson, et al., 405/128; 71/13; 210/764, 916 [IMAGE AVAILABLE]

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196. 4,894,392, Jan. 16, 1990, *Aminoalkyl naphthalenediols as host resistance enhancers*; Philippe L. Durette, et al., 514/459, 471, 472,

197. 4,888,170, Dec. 19, 1989, Vaccines obtained from antigenic gene products of recombinant genes; Roy Curtiss, III, 424/200.1, 244.1, 258.1; 435/252.3, 252.8 [IMAGE AVAILABLE]

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204. 4,793,927, Dec. 27, 1988, Method of treating sewage; Peter P. Meehan, et al., 405/128; 71/12, 901; 210/764 [IMAGE AVAILABLE]

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207. 4,772,588, Sep. 20, 1988, Treatment of parasitic diseases with calf thymus extract; Giovanna Scioppacassi, 514/21; 424/580; 514/2, 8; 530/397, 399 [IMAGE AVAILABLE]

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214. 4,714,606, Dec. 22, 1987, Method of staining and identifying cells and compositions thereof; Lawrence Kass, 435/40.51, 29, 34, 39; 534/611 [IMAGE AVAILABLE]

215. 4,711,955, Dec. 8, 1987, Modified nucleotides and methods of preparing and using same; David C. Ward, et al., 536/25.32, 25.6, 26.6 [IMAGE AVAILABLE]

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217. H 271, May 5, 1987, Treatment of malaria with esters of cephalotaxine; June M. Whaun, 514/214 [IMAGE AVAILABLE]

218. 4,574,058, Mar. 4, 1986, Antigen derivatives and processes for their preparation; Gerhard Baschang, et al., 536/17.2; 260/998.2; 530/322, 807; 536/17.3 [IMAGE AVAILABLE]

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220. 4,510,144, Apr. 9, 1985, Methods of imparting immunomodulating activity with dihydrothiazolo purine derivatives; John W. Hadden, et al., 514/257, 267 [IMAGE AVAILABLE]

221. 4,446,128, May 1, 1984, Antigen derivatives and processes for their preparation; Gerhard Baschang, et al., 424/194.1, 279.1; 514/19; 530/806; 536/53; 930/DIG.500 [IMAGE AVAILABLE]

222. 4,397,844, Aug. 9, 1983, Antigen derivatives and processes for their preparation; Gerhard Baschang, et al., 514/8; 530/806, 807; 536/53; 930/DIG.500 [IMAGE AVAILABLE]

223. 4,387,226, Jun. 7, 1983, Purine-dihydrothiazoles; John W. Hadden, et al., 544/247; 530/351; 544/251 [IMAGE AVAILABLE]

224. 4,375,542, Mar. 1, 1983, Kijanimycin antibiotics and derivatives thereof; Jay A. Waitz, et al., 536/7.1; 435/76; 514/27, 28, 29 [IMAGE AVAILABLE]

225. 4,235,995, Nov. 25, 1980, 3-Nitropyrazole derivatives; Reuben G. Jones, et al., 548/365.7; 546/275.4; 548/194, 364.7 [IMAGE AVAILABLE]

226. 4,145,554, Mar. 20, 1979, 3-Nitropyrazole derivatives; Reuben G. Jones, et al., 548/365.1, 364.7, 365.7, 371.7, 372.1 [IMAGE AVAILABLE]

227. 4,066,776, Jan. 3, 1978, Anti-bacterial compositions containing certain 3-nitropyrazoles; Reuben G. Jones, et al., 514/363, 339, 370, 407; 546/268.7, 275.4; 548/137, 197, 364.7, 365.7, 371.7, 372.5 [IMAGE AVAILABLE]

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3.2-fold (14 days after the tumor inoculation), whereas no change in the number of tumor-infiltrating lymphocytes was demonstrated in mice treated with Z-100 i.p. or i.v. as compared to controls. When BALB/c mice were inoculated s.c. with a mixture of Meth-A tumor cells ( $1 \times 10^6$  cells) and lymphocytes ( $2 \times 10^5$  cells) derived from Z-100-treated tumor tissues in a Winn's neutralization test, decreased growth of solid tumors was demonstrated as compared with that of control mice inoculated with tumor cells alone. However, no such inhibition of tumor growth was observed in mice inoculated with a mixture of the tumor cells and lymphocytes obtained from tumor tissues of control mice at the same effector to target cell ratio. (ABSTRACT TRUNCATED AT 250 WORDS)

CT Check Tags: Animal

\***Adjuvants, Immunologic: TU, therapeutic use**

\*Antineoplastic Agents: PD, pharmacology

Drug Screening Assays, Antitumor

Injections

Interleukin-3: BI, biosynthesis

Lipids: IP, isolation & purification

\*Lipids: PD, pharmacology

Lymphocytes: DE, drug effects

Lymphocytes: IM, immunology

Mannans: IP, isolation & purification

\*Mannans: PD, pharmacology

Mice

Mice, Inbred BALB C

\***Mycobacterium tuberculosis: CH, chemistry**

Sarcoma, Experimental: IM, immunology

\*Sarcoma, Experimental: TH, therapy

CN 0 (Adjuvants, Immunologic); 0 (Antineoplastic Agents); 0 (Interleukin-3); 0 (Lipids); 0 (Mannans); 0 (SSM)

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TI [Anti-infectious chemotherapy].

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LA French

SL French; English

AB Sarcoidosis and Crohn's disease may be due to a mycobacterium. PCR characterizes *Tropheryma whippelii*, the bacillary agent of Whipple's disease. Seven years or more after their introduction on the market, the fluoroquinolines are loosing activity against

enterobacteriaceae, *Salmonella*, *Campylobacter* and even **E.**

**coli**, due to the abuse of antibacterial agents by the alimentary industry. Intracellular kinetics allow prediction about the selective activity of macrolides and quinolones on intracellular pathogens. New data on *Helicobacter pylori*. Extended spectrum of the new macrolides to **parasites** and rickettsiae. How to

treat **P. falciparum** malaria in pregnant

women? Victories of qinghaosu derivatives and defeats of norfloxacin against **P. falciparum**. How to treat

meningitis due to penicillin-cephalosporin-resistant pneumococci?

Does chlorhexidin protect neonates against serious infections due to group B-streptococci? Severe Hib infections in the adult.

CT Streptococcus sanguis or better Streptococcus sanguinis?  
 EMTAGS: **infection** (0310); **therapy** (0160); **mammal**  
 (0738); **human** (0888); **short survey** (0002)  
 Medical Descriptors:  
 \*infection: DT, drug therapy  
 \*crohn disease: DT, drug therapy  
 \*malaria: DT, drug therapy  
**human**  
 short survey  
 \*sarcoidosis: DT, drug therapy  
 Drug Descriptors:  
 \*quinoline derived antiinfective agent: DT, drug therapy  
 \*ciprofloxacin: DT, drug therapy  
 \*macrolide: DT, drug therapy  
 \*cephalosporin: DT, drug therapy  
 \*chlorhexidine: DT, drug therapy  
 proguanil: DT, drug therapy  
 norfloxacin: DT, drug therapy  
 pyrimethamine: DT, drug therapy  
 vancomycin: DT, drug therapy  
 sulfadoxine: DT, drug therapy  
 rifampicin: DT, drug therapy  
 chloroquine: DT, drug therapy  
 fosfomycin: DT, drug therapy  
 clarithromycin: DT, drug therapy  
 ceftriaxone: DT, drug therapy  
 dirithromycin: DT, drug therapy  
 roxithromycin: DT, drug therapy  
 erythromycin: DT, drug therapy  
 azithromycin: DT, drug therapy  
 fleroxacin: DT, drug therapy  
 mefloquine: DT, drug therapy  
 pefloxacin: DT, drug therapy  
 artemether: DT, drug therapy  
 omeprazole: DT, drug therapy  
 quinine: DT, drug therapy  
 tetracycline: DT, drug therapy  
 RN 85721-33-1; 11111-12-9; 55-56-1; 3697-42-5; 500-92-5; 637-32-1;  
 70458-96-7; 58-14-0; 1404-90-6; 2447-57-6; 13292-46-1; 50-63-5;  
 54-05-7; 132-73-0; 3545-67-3; 23155-02-4; 81103-11-9; 73384-59-5;  
 74578-69-1; 62013-04-1; 80214-83-1; 114-07-8; 70536-18-4;  
 83905-01-5; 79660-72-3; 51773-92-3; 53230-10-7; 70458-92-3;  
 71963-77-4; 73590-58-6; 130-89-2; 130-95-0; 549-48-4; 7549-43-1;  
 60-54-8; 64-75-5  
 CN Quinodis  
 L94 ANSWER 51 OF 108 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.  
 AN 93093053 EMBASE  
 TI The development and validation of a simple antigen detection ELISA  
 for **Plasmodium falciparum** malaria.  
 AU Taylor D.W.; Voller A.  
 CS Department of Biology, Georgetown University, 37th and O Streets,  
 Washington, DC 20057-1028, United States  
 SO TRANS. R. SOC. TROP. MED. HYG., (1993) 87/1 (29-31).  
 ISSN: 0035-9203 CODEN: TRSTAZ  
 CY United Kingdom  
 DT Journal  
 FS 004 Microbiology  
 017 Public Health, Social Medicine and Epidemiology  
 LA English  
 SL English  
 AB A double-antibody sandwich enzyme-linked immunosorbent assay (ELISA)  
 is described for the detection of **Plasmodium**  
**falciparum** antigen. The test is based on an immunoglobulin  
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(Ig) M capture monoclonal antibody on the solid phase and an IgG monoclonal antibody conjugated to peroxidase. The simple test takes about 2.5 h to complete and, because it uses whole blood with no prior **treatment**, it is possible to process batches of 50-100 samples simultaneously. The test is specific to **P. falciparum** and has a sensitivity close to that usually achieved with Giemsa-stained blood films. The reagents employed are stable at refrigerator temperatures for over 6 months, and as the test is compatible with human **immunodeficiency** virus and hepatitis B surface antigen ELISAs it could be suitable for blood transfusion screening.

CT EMTAGS: **immunological procedures** (0102); **invertebrate** (0723); **protozoon** (0751); **infection** (0310); **diagnosis** (0140); **methodology** (0130); **mammal** (0738); **human** (0888); **human tissue, cells or cell components** (0111); **priority journal** (0007); **article** (0060); **enzyme** (0990)

Medical Descriptors:

\*antigen detection

\***plasmodium falciparum**

\*malaria: DI, diagnosis

enzyme linked immunosorbent assay

diagnostic accuracy

diagnostic procedure

screening

methodology

**human**

human tissue

priority journal

article

Drug Descriptors:

\***parasite antigen**

immunoglobulin m: EC, endogenous compound

monoclonal antibody

peroxidase

antibody conjugate

RN 9007-85-6; 9003-99-0

L94 ANSWER 52 OF 108 AIDSLINE

AN 1993:17184 AIDSLINE

DN MED-93365402

TI Quinolones in intracellular infections.

AU Pech`ere J C

CS Departement de Genetique et Microbiologie, Centre Medical Universitaire, Geneva, Switzerland.

SO DRUGS, (1993). Vol. 45, Suppl. 3, pp. 29-36.

Journal code: EC2. ISSN: 0012-6667.

CY New Zealand

DT Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, ACADEMIC)

FS MED; Priority Journals

LA English

OS MEDLINE 93365402

EM 199312

AB Intracellular **parasites** are those which spend most of their lives within host cells. The fluoroquinolones demonstrate favourable intracellular pharmacokinetics for the treatment of intracellular infections; these agents diffuse and accumulate in the phagocytes, mainly in the cytosol, and do not associate with cellular organelles. The fluoroquinolones are generally active against *Salmonella* spp. *in vitro*, and have been used successfully in the treatment of typhoid fever, *Salmonella* bacteraemia in patients with AIDS, and chronic enteric carriage. Fluoroquinolone monotherapy has also been found satisfactory in the treatment of tularemia and

Mediterranean spotted fever. Quinolones, alone or in combination with other agents, have also shown promise in animal models of legionellosis and in limited clinical studies. Quinolones, particularly ciprofloxacin and ofloxacin, have notable antimycobacterial activity. Both agents have been used in combination with other antimycobacterial drugs in the treatment of infections caused by **Mycobacterium tuberculosis**, *M. avium-intracellulare* complex, rapidly growing mycobacteria and *M. leprae*, and deserve consideration as part of a multi-drug regimen in otherwise untreatable mycobacterial infections. Clinical data regarding fluoroquinolone monotherapy in brucellosis indicate unacceptable failure rates which preclude the use of these agents in this indication. The quinolones have some efficacy in genital chlamydial infections, but may have limitations in this indication also. In conclusion, as a result of the in vitro activity of the quinolones and their favourable pharmacokinetics, these agents are now an important part of the armamentarium against intracellular infections.

CT Check Tags: Animal; Human  
 Anti-Infective Agents, Fluoroquinolone: PK, pharmacokinetics  
**\*Anti-Infective Agents, Fluoroquinolone: TU, therapeutic use**  
**Antibiotics: TU, therapeutic use**  
**\*Bacterial Infections: DT, drug therapy**  
 Bacterial Infections: EP, epidemiology  
 Bacterial Infections: PP, physiopathology  
 Microbial Sensitivity Tests

CN 0 (Anti-Infective Agents, Fluoroquinolone); 0 (Antibiotics)

L94 ANSWER 53 OF 108 HCPLUS COPYRIGHT 1998 ACS  
 AN 1993:94336 HCPLUS  
 DN 118:94336  
 TI Treating infectious encephalitis with neuronal amino acid receptor-blocking agents  
 IN Bernton, Edward W.; Tortella, Frank C.  
 PA United States Dept. of the Army, USA  
 SO PCT Int. Appl., 34 pp.  
 CODEN: PIXXD2  
 PI WO 9221340 A1 921210  
 DS W: AT, AU, BB, BG, BR, CA, CH, DE, DK, ES, FI, GB, HU, JP, KP, KR,  
 LK, LU, MG, MW, NL, NO, PL, RO, RU, SD, SE  
 RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR,  
 IT, LU, MC, ML, MR, NL, SE, SN, TD, TG  
 AI WO 92-US4454 920527  
 PRAI US 91-710602 910605  
 DT Patent  
 LA English  
 IC ICM A61K031-44  
 ICS A61K031-215  
 CC 1-11 (Pharmacology)  
 AB Infectious and parainfectious encephalitis and encephalopathy from diverse causes, are treated with agents which block the neuronal excitatory amino acid receptor, specifically the N-methylaspartate binding receptor, or with other drugs which block amino acid excitotoxicity by inhibiting release of endogenous excitatory amino acids. The drugs of choice are MK-801, dextromethorphan, carbetapentane, 7-chlorokynurenic acid, caramiphen, etc. The in-vitro degrdn. and lysis of fetal rat neurons by *Mycoplasma fermentans* was inhibited by pretreatment with MK-801.  
 ST encephalitis drug amino acid receptor antagonist  
 IT Acquired immune deficiency syndrome  
 Malaria  
 Reye's syndrome  
 Sepsis and Septicemia  
 (central nervous system dysfunction in, treatment of, with  
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neuronal excitatory amino acid receptor-blocking agents)  
 IT **Escherichia coli**  
 Haemophilus influenzae  
 Mycoplasma fermentans  
 Plasmodium **falciparum**  
 Streptococcus  
 Trypanosoma  
 (encephalitis by, **treatment** of, with neuronal  
 excitatory amino acid receptor-blocking agents)  
 IT Encephalitis  
 (infectious and parainfectious, treatment of, by neuronal  
 excitatory amino acid receptor-blocking agents)  
 IT Virus, animal  
 (Epstein-Barr, encephalitis by, treatment of, with neuronal  
 excitatory amino acid receptor-blocking agents)  
 IT Virus, animal  
 (Japanese encephalitis, B, encephalitis by, treatment of, with  
 neuronal excitatory amino acid receptor-blocking agents)  
 IT Virus, animal  
 (St. Louis encephalitis, encephalitis by, treatment of, with  
 neuronal excitatory amino acid receptor-blocking agents)  
 IT Virus, animal  
 (Venezuelan equine encephalomyelitis, encephalitis by, treatment  
 of, with neuronal excitatory amino acid receptor-blocking agents)  
 IT Virus, animal  
 (arbo-, encephalitis by, treatment of, with neuronal excitatory  
 amino acid receptor-blocking agents)  
 IT Virus, animal  
 (cytomegalo-, encephalitis by, treatment of, with neuronal  
 excitatory amino acid receptor-blocking agents)  
 IT Virus, animal  
 (entero-, encephalitis by, treatment of, with neuronal excitatory  
 amino acid receptor-blocking agents)  
 IT Virus, animal  
 (herpes simplex 1, encephalitis by, treatment of, with neuronal  
 excitatory amino acid receptor-blocking agents)  
 IT Neurotransmitter antagonists  
 (methyl-D-aspartate, infectious and parainfectious encephalitis  
 treatment by)  
 IT Virus, animal  
 (rubella, encephalitis by, treatment of, with neuronal excitatory  
 amino acid receptor-blocking agents)  
 IT Virus, animal  
 (smallpox, encephalitis by, treatment of, with neuronal  
 excitatory amino acid receptor-blocking agents)  
 IT Virus, animal  
 (vaccinia, encephalitis by, treatment of, with neuronal  
 excitatory amino acid receptor-blocking agents)  
 IT Virus, animal  
 (varicella-zoster, encephalitis by, treatment of, with neuronal  
 excitatory amino acid receptor-blocking agents)  
 IT Opioids  
 RL: BIOL (Biological study)  
 (.kappa.-, antagonists of, neuronal protective, infectious and  
 parainfectious encephalitis treatment by)  
 IT 77-22-5, Caramiphen 77-23-6 97-39-2 125-71-3, Dextromethorphan  
 18000-24-3 77086-22-7, MK-801 115787-68-3, CI-972  
 RL: BIOL (Biological study)  
 (infectious and parainfectious encephalitis treatment by)

L94 ANSWER 54 OF 108 HCAPLUS COPYRIGHT 1998 ACS  
 AN 1993:11763 HCAPLUS  
 DN 118:11763  
 TI Liposomes coated with C-reactive proteins for treatment of infection  
 KATHLEEN FULLER BT/LIBRARY 308-4290

by intracellular **parasites**  
 IN Gelfand, Jeffrey A.; Callahan, Michael V.; Yamada, Yoshinori  
 PA New England Medical Center Hospitals, Inc., USA  
 SO PCT Int. Appl., 20 pp.  
 CODEN: PIXXD2  
 PI WO 9218128 A1 921029  
 DS W: CA, JP  
 RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE  
 AI WO 92-US3166 920416  
 PRAI US 91-689709 910419  
 DT Patent  
 LA English  
 IC ICM A61K031-47  
 CC 63-6 (Pharmaceuticals)  
 AB Liposomes contg. a drug directed against intercellular **parasites** are coated with C-reactive proteins to efficiently target the drug to monocytes/macrophages. Liposomes manufd. with phosphatidylcholines and coated with C-reactive protein were equilibrated with hyperosmolar phosphate-buffered saline contg. amphotericin B (I) and sonicated to encapsulate I. Macrophage uptakes and anti-infective effects of the liposomes were studied.  
 ST C reactive protein coating liposome target; amphotericin liposome C reactive protein coating; antiinfective liposome C reactive protein coating  
 IT Chlamydia  
 Leishmania tropica major  
 Mycobacterium intracellulare  
**Mycobacterium tuberculosis**  
 (infection with, treatment of, with C-reactive protein-bound liposomes contg. drugs)  
 IT **Parasite**  
 (intracellular, infection with, treatment of, C-reactive protein-bound liposomes contg. drugs for)  
 IT Bactericides, Disinfectants, and Antiseptics  
 Fungicides and Fungistats  
 Virucides and Virustats  
 (liposomes contg., C-reactive protein-bound)  
 IT Phosphatidylcholines, biological studies  
 RL: BIOL (Biological study)  
 (liposomes manuf. with, C-reactive protein coating in, for targeting monocyte/macrophages infected with intracellular **parasites**)  
 IT Proteins, specific or class  
 RL: BIOL (Biological study)  
 (C-reactive, anti-infective agent-contg. liposomes coating with, for targeting monocyte/macrophages)  
 IT Virus, animal  
 (**human immunodeficiency** 1, infection with, treatment of, with C-reactive protein-bound liposomes contg. drugs)  
 IT Pharmaceutical dosage forms  
 (liposomes, C-reactive protein-bound, for targeting monocyte/macrophages infected with intracellular **parasites**)  
 IT 107-73-3, Phosphorylcholine  
 RL: BIOL (Biological study)  
 (liposomes manuf. with, C-reactive protein coating in, for targeting monocyte/macrophages infected with intracellular **parasites**)  
 IT 1397-89-3, Amphotericin B  
 RL: BIOL (Biological study)  
 (C-reactive protein-bound liposomes contg., for treatment of intracellular infections)

L94 ANSWER 55 OF 108 HCAPLUS COPYRIGHT 1998 ACS  
 AN 1993:87601 HCAPLUS  
 DN 118:87601  
 TI Peptide epitopes of HIV gp120 conjugated to carriers as preventive vaccines for HIV  
 IN Rubinstein, Arye; Bloom, Barry R.; Devash, Yair; Cryz, Stanley  
 PA Schweiz. Serum- and Impfinstitut Bern, Switz.; Yeshiva University  
 SO PCT Int. Appl., 64 pp.  
 CODEN: PIXXD2  
 PI WO 9217590 A1 921015  
 DS W: AU, CA, JP  
 RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE  
 AI WO 92-EP735 920402  
 PRAI US 91-681624 910402  
 US 92-837781 920214  
 DT Patent  
 LA English  
 IC ICM C12N015-49  
 ICS A61K039-21; G01N033-569  
 CC 63-3 (Pharmaceuticals)  
 AB The title gp120 epitope-carrier conjugates for use as HIV vaccines are claimed. After vaccination with the conjugates, antibody-contg. fluid is extd. from individuals and assessed in an antigen-limited ELISA which contains a thimerosal-contg. diluent and selects for high affinity/avidity neutralizing and/or protective HIV-specific antibodies. The conjugates which have induced the prodn. of such antibodies are useful in the **treatment** and transmission prevention of **HIV**. Conjugates of purified protein deriv. of tuberculin from **Mycobacterium tuberculosis** ~~X~~ with gp120 epitopes were prep'd. and administered to 5 **humans**. After a 3rd immunization, one volunteer had a high titer of high affinity/high avidity HIV-specific antibodies. Upon exposure to the HIV epitope, the lymphocytes of this individual responded in vitro by proliferation and secretion of interleukin-2.  
 ST HIV vaccine gp120 epitope carrier conjugate  
 IT Mycobacterium BCG  
 (conjugates, with HIV gp120 epitopes, prepn. and use of, as HIV vaccine)  
 IT Hemocyanins  
 RL: PREP (Preparation)  
 (keyhole limpet, conjugates, with HIV gp120 epitopes, prepn. and use as HIV vaccine of)  
 IT Vaccines  
 (to HIV, gp120 epitope-immunogenic carrier conjugates as, prepn. of)  
 IT Tuberculins  
 RL: PREP (Preparation)  
 (PPD (purified protein derivs.), conjugates, with HIV gp120 epitopes, prepn. and use as HIV vaccine of)  
 IT Immunostimulants  
 (adjuvants, Freund's, adjuvant, for HIV gp120 epitope-immunogenic carrier conjugate, HIV vaccine in relation to)  
 IT Immunostimulants  
 (adjuvants, ISCOMs, adjuvant, for HIV gp120 epitope-immunogenic carrier conjugate, HIV vaccine in relation to)  
 IT Immunostimulants  
 (adjuvants, Ribi, adjuvant, for HIV gp120 epitope-immunogenic carrier conjugate, HIV vaccine in relation to)  
 IT Polyesters, biological studies  
 RL: BIOL (Biological study)  
 (dilactone-based, HIV gp120 epitope-immunogenic carrier conjugate microencapsulation with, HIV vaccine in relation to)  
 IT Toxoids  
 RL: PREP (Preparation)

(diphtheria, conjugates, with HIV gp120 epitopes, prepn. and use as HIV vaccine of)

IT Toxins  
 RL: PREP (Preparation)  
 (exo-, A, of *Pseudomonas aeruginosa*, conjugates, with HIV gp120 epitopes, prepn. and use as HIV vaccine of)

IT Sialoglycoproteins  
 RL: PREP (Preparation)  
 (gp120env, epitopes of, of HIV, conjugates with immunogenic carriers of, prepn. and use as HIV vaccines of)

IT Antigens  
 RL: PREP (Preparation)  
 (hepatitis B core, conjugates, with HIV gp120 epitopes, prepn. and use as HIV vaccine of)

IT Virus, animal  
 (**human** immunodeficiency, vaccines for, gp120 epitope-immunogenic carrier conjugates as, prepn. of)

IT Glycophospholipids  
 RL: BIOL (Biological study)  
 (lipid A, monophosphates, adjuvant, for HIV gp120 epitope-immunogenic carrier conjugate, HIV vaccine in relation to)

IT Encapsulation  
 (micro-, of HIV gp120 epitope-immunogenic carrier conjugate, HIV vaccine in relation to)

IT Toxoids  
 RL: PREP (Preparation)  
 (tetanus, conjugates, with HIV gp120 epitopes, prepn. and use as HIV vaccine of)

IT Organelle  
 (virosome, adjuvant, for HIV gp120 epitope-immunogenic carrier conjugate, HIV vaccine in relation to)

IT 7784-30-7 21645-51-2, Aluminum hydroxide (Al(OH)3), biological studies  
 RL: BIOL (Biological study)  
 (adjuvant for HIV gp120 epitope-immunogenic carrier conjugates, HIV vaccine in relation to)

IT 1344-28-1, Alumina, biological studies  
 RL: BIOL (Biological study)  
 (adjuvant, for HIV gp120 epitope-immunogenic carrier conjugate, HIV vaccine in relation to)

IT 54-64-8, Thimerosal  
 RL: BIOL (Biological study)  
 (in assay for anti-HIV antibodies, selection of vaccine in relation to)

IT 128554-25-6DP, conjugate with immunogenic carrier 128554-26-7DP, conjugate with immunogenic carrier 128554-28-9DP, conjugate with immunogenic carrier 128554-29-0DP, conjugate with immunogenic carrier 128554-31-4DP, conjugate with immunogenic carrier 128554-34-7DP, conjugate with immunogenic carrier 128554-35-8DP, conjugate with immunogenic carrier 128554-38-1DP, conjugate with immunogenic carrier 130036-94-1DP, conjugate with immunogenic carrier 131474-06-1DP, conjugate with immunogenic carrier 145785-52-0DP, conjugate with immunogenic carrier 145785-53-1DP, conjugate with immunogenic carrier 145785-54-2DP, conjugate with immunogenic carrier  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and use of, as HIV vaccine)

L94 ANSWER 56 OF 108 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 92-041352 [05] WPIDS  
 CR 92-041346 [05]  
 DNC C92-018097  
 TI Pure transfer factor with activity greater than 5,000 units per  
 KATHLEEN FULLER BT/LIBRARY 308-4290

AU-214 - used to treat viral, bacterial and protozoal infections  
e.g. HIV, herpes and candida.

DC B04 C06 D16

IN KIRKPATRICK, C H; ROZZO, S J; KIRKPATRIC, C H

PA (NAJE-N) NAT JEWISH CENT IMMUNOLOGY & RESPIRATORY; (NAJE-N) NAT JEWISH CENT IMN; (NAJE-N) NAT JEWISH CENT IMM

CYC 33

PI WO 9200093 A 920109 (9205)\*

RW: AT BE CH DE DK ES FR GB IT LU NL OA SE  
W: AT AU BB BG BR CA CH DE DK ES FI GB HU JP KP KR LK LU MC MG  
MW NL NO RO SD SE SU

AU 9181957 A 920227 (9218)

JP 05508847 W 931209 (9403) 21 pp C07K015-06

AU 657915 B 950330 (9521) C07K015-06

EP 537280 B1 970917 (9742) EN 40 pp A61K038-00

R: AT BE CH DE DK ES FR GB GR IT LI LU NL SE  
DE 69127694 E 971023 (9748) A61K038-00

ADT JP 05508847 W JP 91-512313 910702, WO 91-US4779 910702; AU 657915 B  
AU 91-81957 910702; EP 537280 B1 EP 91-913547 910702, WO 91-US4779  
910702; DE 69127694 E DE 91-627694 910702, EP 91-913547 910702, WO  
91-US4779 910702

FDT JP 05508847 W Based on WO 9200093; AU 657915 B Previous Publ. AU  
9181957, Based on WO 9200093; EP 537280 B1 Based on WO 9200093; DE  
69127694 E Based on EP 537280, Based on WO 9200093

PRAI US 91-718571 910626; US 90-547500 900702

REP 6.Jnl.Ref ; EP 101200; EP 143445; US 3991132; US 4468372; US 4616079

IC A61K037-02; C07K003-00  
ICM A61K038-00; C07K015-06  
ICS A61K037-02; C07K001-00; C07K003-00; C07K003-18

AB WO 9200093 A UPAB: 950609

A pure transfer factor (TF) with a specific activity of at least 5000 units per absorbance unit at 214nm is claimed.

Also claimed are (A) a pure TF with a mol.wt. of 4500-5500 daltons as determined by aminoacid analysis, which migrates as a single peak on reverse phase, which has a specific activity of at least 5000 units per absorbance unit at 214nm; (B) a method of producing pure TF; (C) a method of treating a **human** of animal with an infection caused by a microorganism comprising administering a pure TF specific for the microorganism with a specific activity of at least 5,000 units per absorbance unit at 214nm; and (D) a method of preventing an infection in a **human** or animal by a microorganism comprising administering a pure TF specific for the microorganism with a specific activity of at least 5,000 units per absorbance unit at 214nm.

USE/ADVANTAGE - The pure TF is effective in transferring cell mediated immunity to **humans** or animals. The TFs activate the cell mediated immune system and act very rapidly to prevent or treat infection caused by viruses, e.g. Herpes simplex or HIV, fungi e.g. *Candida albicans*, bacteria e.g. **Mycobacterium tuberculosis**, **parasites**, e.g. coccidia or protozoa. @ (69pp Dwg.No.0/0

FS CPI

FA AB

MC CPI: B04-B04A1; B12-A01; B12-A02C; B12-A04; B12-A06; B12-B04;  
C04-B04A1; C12-A01; C12-A02C; C12-A04; C12-A06; C12-B04;  
D05-H13

L94 ANSWER 57 OF 108 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 7

AN 92:441619 BIOSIS

DN BR43:74619

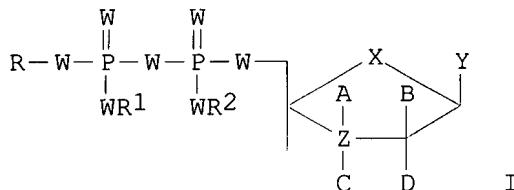
TI THE HISTORY OF **MALARIOOTHERAPY** FOR NEUROSYPHILIS MODERN PARALLELS.

AU AUSTIN S C; STOLLEY P D; LASKY T

CS DEP. EPIDEMIOL. AND PREVENTIVE MED., UNIV. MD. SCH. MED., 600 REDWOOD  
KATHLEEN FULLER BT/LIBRARY 308-4290

ST., BALTIMORE, MD. 21201.  
 SO JAMA (J AM MED ASSOC) 268 (4). 1992. 516-519. CODEN: JAMAAP ISSN: 0098-7484  
 LA English  
 ST REVIEW HUMAN PUTATIVE SYPHILIS CURE ACQUIRED IMMUNODEFICIENCY SYNDROME DISEASE COMPARISON TREATMENT POTENTIAL ACQUIRED IMMUNODEFICIENCY SYNDROME ACTIVISTS SOCIOPOLITICAL ISSUES RESEARCH STANDARDS DRUG EVALUATION PROCESS MEDICAL ETHICS EUROPE USA  
 CC General Biology-Philosophy \*00502  
 General Biology-Institutions, Administration and Legislation \*00508  
 Social Biology; Human Ecology 05500  
 Pathology, General and Miscellaneous-Comparative 12503  
 Pathology, General and Miscellaneous-Therapy \*12512  
 Nervous System-Pathology \*20506  
 Pharmacology-Clinical Pharmacology 22005  
 Immunology and Immunochemistry-Immunopathology, Tissue Immunology \*34508  
 Medical and Clinical Microbiology-Bacteriology \*36002  
 Public Health-Public Health Administration and Statistics \*37010  
 Public Health-Health Services and Medical Care \*37012  
 Public Health: Epidemiology-Communicable Diseases \*37052  
 Chemotherapy-Antibacterial Agents \*38504  
 Chemotherapy-Antiviral Agents \*38506  
 Food and Industrial Microbiology-Biodegradation and Biodeterioration \*39006  
 BC Retroviridae-Lentivirinae 02242  
 Spirochaetaceae 06112  
 Hominidae 86215

L94 ANSWER 58 OF 108 HCAPLUS COPYRIGHT 1998 ACS DUPLICATE 8  
 AN 1991:574631 HCAPLUS  
 DN 115:174631  
 TI 5'-Diphosphohexose nucleoside pharmaceutical compositions  
 IN Schinazi, Raymond F.; Shafer, William M.; Sommadossi, Jean Pierre; Chu, Chung K.  
 PA University of Georgia Research Foundation, Inc., USA; UAB Research Foundation  
 SO PCT Int. Appl., 90 pp.  
 CODEN: PIXXD2  
 PI WO 9100867 A1 910124  
 DS W: CA, JP  
 RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE  
 AI WO 90-US3852 900710  
 PRAI US 89-377617 890710  
 DT Patent  
 LA English  
 IC ICM C07H019-10  
 ICS C07H019-20; A61K031-70  
 CC 1-5 (Pharmacology)  
 Section cross-reference(s): 33, 63  
 OS MARPAT 115:174631  
 GI



AB 5'-Diphosphohexose nucleosides I (A, B, C = H, halo, azido; D = H, halo, azido, OH; A and B or C and D can be replaced by a double bond; R = aldohexose, aldohexosamine, N-acetyl aldohexosamine; R1, R2 = H, C1-10 alkyl; W = O, S; X = O, S, CH2; Y = purine, pyrimidine base, Z = C, S, O; if Z = S, O, A and C are not present) are prep'd. that have enhanced pharmaceutical or biol. activity or increased intracellular absorption compared to the corresponding parent nucleoside as a function of the 5'-diphosphohexose moiety. Many of these compds. have antiviral, including anti-AIDS virus, activity. Others have antibacterial activity. In one embodiment, a method is described to **treat human immunodeficiency** virus (**HIV**) infection and opportunistic infections concomitantly. 3'-Azido-2',3'-dideoxyuridine-5'-diphospho-N-acetylglucosamine (prepn. described) had a median effective concn. (EC50) of 0.02-0.41 .mu.M against HIV-1 in vitro. The 50% inhibitory concn. (IC50) of this compd. against normal, uninfected **human** peripheral blood mononuclear cells was >100 .mu.M. The compd. also inhibited *Staphylococcus aureus*.

ST phosphohexose nucleoside antiviral antibacterial; AIDS virus phosphohexose nucleoside

IT Nucleosides, biological studies  
RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)  
(biol. activity of, enhancement of, by derivatizing with diphosphohexose)

IT Anti-infective agents  
(diphosphohexose nucleosides)

IT Pharmaceutical dosage forms  
(diphosphohexose nucleosides in, as antimicrobials)

IT Macrophage  
(nucleoside conversion to antimicrobial diphosphohexose deriv. in)

IT *Cryptococcus neoformans*  
***Histoplasma capsulatum***  
*Legionella*  
*Mycobacterium intracellulare*  
***Mycobacterium tuberculosis***  
*Mycoplasma*  
*Pneumocystis carinii pneumoniae*  
*Salmonella*  
*Shigella*  
*Toxoplasma*  
(opportunistic infection with, **treatment** of, with diphosphohexose nucleosides)

IT Molecular structure-biological activity relationship  
(*Staphylococcus aureus*-inhibiting, of azidodideoxyuridine derivs.)

IT Virus, animal  
(cytomegalo-, opportunistic infection with, treatment of, with diphosphohexose nucleosides)

IT Virus, animal  
(**human immunodeficiency**, infection with, **treatment** of, with diphosphohexose nucleosides)

IT Virus, animal  
(**human immunodeficiency** 1, inhibition of, with azidodideoxyuridinediphosphohexoses, in **human** peripheral blood mononuclear cells)

IT Pharmaceutical dosage forms  
(liposomes, diphosphohexose nucleosides in, as antimicrobials)

IT Bactericides, Disinfectants, and Antiseptics  
Fungicides and Fungistats

(medical, diphosphohexose nucleosides)

IT Leukocyte  
 (mononuclear, azidodideoxyuridine metab. in)  
 IT 3056-17-5D, 3'-Deoxy-2',3'-didehydrothymidine, diphosphohexose  
 derivs. 4097-22-7D, 2',3'-Dideoxyadenosine, diphosphohexose  
 derivs. 7481-88-1D, diphosphohexose derivs. 7481-89-2D,  
 2',3'-Dideoxycytidine, diphosphohexose derivs. 21679-14-1D,  
 9-.beta.-D-Arabinofuranosyl-2-fluoroadenine, diphosphohexose derivs.  
 25526-93-6D, 3'-Fluoro-3'-deoxythymidine, diphosphohexose derivs.  
 28446-21-1D, nucleoside derivs. 30516-87-1D, 3'-Azido-3'-  
 deoxythymidine, diphosphohexose derivs. 41107-56-6D,  
 diphosphohexose derivs. 69123-90-6D, diphosphohexose derivs.  
 69304-47-8D, diphosphohexose derivs. 69655-05-6D,  
 2',3'-Dideoxyinosine, diphosphohexose derivs. 77181-69-2D,  
 diphosphohexose derivs. 83546-42-3D, diphosphohexose derivs.  
 84472-85-5D, 3'-Azido-2',3'-dideoxyuridine, diphosphohexose derivs.  
 85326-07-4D, diphosphohexose derivs. 85326-07-4D, halo,  
 diphosphohexose derivs. 87190-79-2D, diphosphohexose derivs.  
 105380-83-4D, diphosphohexose derivs. 115249-95-1D,  
 diphosphohexose derivs. 134680-32-3D, diphosphohexose derivs.  
 136465-73-1D, diphosphohexose derivs.  
 RL: BIOL (Biological study)  
 (antimicrobials)

IT 9024-82-2, Inorganic pyrophosphatase 9026-22-6,  
 UDPG-pyrophosphorylase  
 RL: BIOL (Biological study)  
 (in prepn. of antiviral azidodideoxyuridinediphosphoglucose)

IT 132278-28-5P 132278-29-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and anti-**human** immunodeficiency virus activity  
 and toxicity of)

IT 5983-03-9P 14270-73-6P 84472-84-4P 84472-85-5P,  
 3'-Azido-2',3'-dideoxyuridine 117783-53-6P 136491-33-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and reaction of, in prepn. of antimicrobial  
 diphosphohexose deriv.)

IT 136465-75-3P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of, in prepn. of antimicrobial diphosphohexose deriv.)

IT 59-56-3, Glucose-1-phosphate 119388-79-3  
 RL: RCT (Reactant)  
 (reaction of, in enzymic prepn. of antiviral deriv.)

IT 951-78-0, 2'-Deoxyuridine 73577-59-0  
 RL: RCT (Reactant)  
 (reaction of, in prepn. of antimicrobial diphosphohexose deriv.)

IT 136465-79-7  
 RL: RCT (Reactant)  
 (reaction of, in prepn. of antimicrobial diphosphohexose  
 nucleoside deriv.)

IT 136465-76-4  
 RL: PRP (Properties)  
 (toxicity of, in cultured **human** peripheral blood  
 mononuclear cells)

L94 ANSWER 59 OF 108 HCPLUS COPYRIGHT 1998 ACS  
 AN 1991:243590 HCPLUS  
 DN 114:243590  
 TI Detection and treatment of infections with immunoconjugates and  
 sterile injectable preparations for targeting infections  
 IN Goldenberg, Milton David  
 PA Immunomedics, Inc., USA  
 SO Eur. Pat. Appl., 20 pp.  
 CODEN: EPXXDW  
 PI EP 417927 A1 910320

DS R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE  
 AI EP 90-309319 900824  
 PRAI US 89-399566 890824  
 DT Patent  
 LA English  
 IC ICM A61K049-02  
 ICS A61K047-48; A61K049-00; A61K043-00  
 CC 8-9 (Radiation Biochemistry)  
 Section cross-reference(s): 15, 63  
 AB Diagnostic or therapeutic agent conjugates with (a) an antibody or antibody fragment which binds to an epitope on a pathogen or an antigen derived therefrom, or (b) an immunoreactive composite of chem.-linked antibodies or fragments binding to such epitopes are used in the detection or treatment of infections. A sterile, injectable prepn. for such use is also provided. **Mice**  
 were hyperimmunized with glycoprotein gp160 of the AIDS virus and monoclonal antibodies MAb-160s1 and MAb-160s2 plus others were prep'd. by the hybridoma method. The Fab' fragment of MAb-160s1 was prep'd. and conjugated with 99mTc or with 131I and Fab' fragment of MAb-160s2. The conjugates were used in SPECT imaging and AIDS therapy, resp.  
 ST infection immunoconjugate diagnosis therapy; antibody AIDS virus immunoconjugate; pathogen antibody immunoconjugate; imaging AIDS virus antibody conjugate  
 IT Therapeutics  
 (agents for, conjugates with antibodies to pathogens, for targeting infection foci)  
 IT Anti-infective agents  
 (anti-pathogen antibody conjugates with therapeutic agents as)  
 IT Antigens  
 RL: BIOL (Biological study)  
 (antibodies to, of pathogens, conjugates with diagnostic or therapeutic agents, for targeting infection foci)  
 IT *Acholeplasma laidlawii*  
*Babesia bovis*  
*Brucella abortus*  
*Echinococcus granulosus*  
*Elmeria tenella*  
*Escherichia coli*  
*Legionella pneumophila*  
*Leishmania tropica*  
*Mesocestoides corti*  
*Mycobacterium leprae*  
**Mycobacterium tuberculosis**  
*Mycoplasma arginini*  
*Mycoplasma arthritidis*  
*Mycoplasma hyorhinis*  
*Mycoplasma orale*  
*Mycoplasma pneumoniae*  
*Mycoplasma salivarium*  
*Mycoplasma*  
*Neisseria gonorrhoeae*  
*Neisseria meningitidis*  
*Onchocerca volvulus*  
**Plasmodium falciparum**  
**Plasmodium vivax**  
*Protozoa*  
*Pseudomonas aeruginosa*  
*Schistosoma japonicum*  
*Schistosoma mansoni*  
*Streptococcus agalactiae*  
*Streptococcus pneumoniae*  
*Streptococcus pyogenes*  
*Taenia hydatigena*

Taenia ovis  
 Taenia saginata  
 Theileria parva  
 Toxoplasma gondii  
 Treponema pallidum  
 Trichinella spiralis  
 Trypanosoma brucei  
 Trypanosoma cruzi  
 Trypanosoma rangeli  
 Trypanosoma rhodesiense  
     (antibody to, conjugates with diagnostic or therapeutic agents,  
     for targeting infection foci)  
 IT Cytotoxic agents  
     (conjugates with anti-pathogen antibodies, for targeting  
     infection foci)  
 IT Lymphokines and Cytokines  
     RL: BIOL (Biological study)  
     (hematopoietic toxicity prevention by, in formulation contg.  
     therapeutic agent-antibody conjugate)  
 IT Virus, animal  
     (human serum parvo-like, antibody to, conjugates with  
     diagnostic or therapeutic agents, for targeting infection foci)  
 IT Anthelmintics  
 Antimalarials  
 Protozoacides  
 Virucides and Virustats  
     (infection-targeting antibody-therapeutic agent conjugates as)  
 IT Infection  
     (targeting of, with antibody conjugates with diagnostic or  
     therapeutic agents)  
 IT Antiseraums  
     (to pathogen, conjugates with diagnostic or therapeutic agents,  
     for targeting infection foci)  
 IT Antibodies  
     RL: BIOL (Biological study)  
     (to pathogen, conjugates with diagnostic or therapeutic agents,  
     for targeting infection foci)  
 IT Hematopoietic precursor cell  
     (toxicity to, by therapeutic agent-antibody conjugate, cytokine  
     protection against)  
 IT Malaria  
     (treatment of, with anti-malaria antibody-pyrimethamine  
     conjugate)  
 IT Leprosy  
     (treatment of, with iodine-131-radioiodinated antibody  
     conjugates)  
 IT Virus, animal  
     (DNA-contg., antibody to, conjugates with diagnostic or  
     therapeutic agents, for targeting infection foci)  
 IT Virus, animal  
     (Epstein-Barr, antibody to, conjugates with diagnostic or  
     therapeutic agents, for targeting infection foci)  
 IT Spirochaetales  
     (Lyme disease, antibody to, conjugates with diagnostic or  
     therapeutic agents, for targeting infection foci)  
 IT Imaging  
     (NMR, agents, for magnetic resonance image enhancement,  
     conjugates with anti-pathogen antibodies, for targeting infection  
     foci)  
 IT Virus, animal  
     (RNA-contg., antibody to, conjugates with diagnostic or  
     therapeutic agents, for targeting infection foci)  
 IT Virus, animal  
     (SV40, antibody to, conjugates with diagnostic or therapeutic

agents, for targeting infection foci)  
IT Virus, animal  
(Sendai, antibody to, conjugates with diagnostic or therapeutic  
agents, for targeting infection foci)  
IT Virus, animal  
(Sindbis, antibody to, conjugates with diagnostic or therapeutic  
agents, for targeting infection foci)  
IT **Immunodeficiency**  
(acquired **immune deficiency** syndrome,  
treatment of, with iodine-131-anti-glycoprotein gp160  
monoclonal antibody fragment conjugate)  
IT Virus, animal  
(adeno-, antibody to, conjugates with diagnostic or therapeutic  
agents, for targeting infection foci)  
IT Diagnosis  
(agents, conjugates with antibodies to pathogens, for targeting  
infection foci)  
IT Virus, animal  
(bluetongue, antibody to, conjugates with diagnostic or  
therapeutic agents, for targeting infection foci)  
IT Radioelements, compounds  
RL: BIOL (Biological study)  
(conjugates, with antibodies to pathogens, for targeting  
infection foci)  
IT Virus, animal  
(cytomegalo-, antibody to, conjugates with diagnostic or  
therapeutic agents, for targeting infection foci)  
IT Virus, animal  
(dengue, antibody to, conjugates with diagnostic or therapeutic  
agents, for targeting infection foci)  
IT Virus, animal  
(feline leukemia, antibody to, conjugates with diagnostic or  
therapeutic agents, for targeting infection foci)  
IT Glycoproteins, specific or class  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(gp160env, monoclonal antibodies to, prepn. of, for prepg.  
diagnostic imaging and therapeutic conjugates)  
IT Virus, animal  
(hepatitis B, antibody to, conjugates with diagnostic or  
therapeutic agents, for targeting infection foci)  
IT Virus, animal  
(herpes, antibody to, conjugates with diagnostic or therapeutic  
agents, for targeting infection foci)  
IT Virus, animal  
(human T-cell leukemia, antibody to, conjugates with  
diagnostic or therapeutic agents, for targeting infection foci)  
IT Virus, animal  
(human immunodeficiency, antibody to, conjugates with  
diagnostic or therapeutic agents, for targeting infection foci)  
IT Virus, animal  
(human immunodeficiency 1, glycoprotein gp160 of,  
monoclonal antibodies to, prepn. of, for prepg. diagnostic  
imaging and therapeutic conjugates)  
IT Virus, animal  
(human wart, antibody to, conjugates with diagnostic or  
therapeutic agents, for targeting infection foci)  
IT Scintigraphy  
(immuno-, of AIDS virus-pos. patient, technetium-99m-labeled  
anti-glycoprotein gp160 antibody Fab' fragment in)  
IT Virus, animal  
(influenza, antibody to, conjugates with diagnostic or  
therapeutic agents, for targeting infection foci)  
IT Pharmaceutical dosage forms  
(injections, of antibody conjugates with diagnostic or

therapeutic agents, for targeting infection foci)

IT Virus, animal  
(lymphocytic choriomeningitis, antibody to, conjugates with diagnostic or therapeutic agents, for targeting infection foci)

IT Virus, animal  
(measles, antibody to, conjugates with diagnostic or therapeutic agents, for targeting infection foci)

IT Bactericides, Disinfectants, and Antiseptics  
(medical, infection-targeting antibody-therapeutic agent conjugates as)

IT Antibodies  
RL: BIOL (Biological study)  
(monoclonal, to pathogen, conjugates with diagnostic or therapeutic agents, for targeting infection foci)

IT Virus, animal  
(mumps, antibody to, conjugates with diagnostic or therapeutic agents, for targeting infection foci)

IT Virus, animal  
(murine leukemia, antibody to, conjugates with diagnostic or therapeutic agents, for targeting infection foci)

IT Virus, animal  
(murine mammary tumor, antibody to, conjugates with diagnostic or therapeutic agents, for targeting infection foci)

IT Microorganism  
(pathogenic, antibody to, conjugates with diagnostic or therapeutic agents, for targeting infection foci)

IT Virus, animal  
(polio-, antibody to, conjugates with diagnostic or therapeutic agents, for targeting infection foci)

IT Virus, animal  
(rabies, antibody to, conjugates with diagnostic or therapeutic agents, for targeting infection foci)

IT Virus, animal  
(reov-, antibody to, conjugates with diagnostic or therapeutic agents, for targeting infection foci)

IT Virus, animal  
(respiratory syncytial, antibody to, conjugates with diagnostic or therapeutic agents, for targeting infection foci)

IT Virus, animal  
(rubella, antibody to, conjugates with diagnostic or therapeutic agents, for targeting infection foci)

IT Tomography  
(single-photon-emission, computerized, of AIDS virus-pos. patient, technetium-99m-labeled anti-glycoprotein gp160 antibody Fab' fragment in)

IT Toxins  
RL: BIOL (Biological study)  
(tetanus, antibody to, conjugates with diagnostic or therapeutic agents, for targeting infection foci)

IT Haemophilus influenzae  
(type b, antibody to, conjugates with diagnostic or therapeutic agents, for targeting infection foci)

IT Virus, animal  
(varicella-zoster, antibody to, conjugates with diagnostic or therapeutic agents, for targeting infection foci)

IT Virus, animal  
(vesicular stomatitis, antibody to, conjugates with diagnostic or therapeutic agents, for targeting infection foci)

IT 23288-61-1D, monoclonal antibody fragment conjugates  
RL: BIOL (Biological study)  
(AIDS virus infection foci imaging with)

IT 10043-66-0D, Iodine-131, bivalent monoclonal antibody fragment conjugates  
RL: BIOL (Biological study)

IT (AIDS virus infection foci treatment with)  
 IT 7440-42-8D, Boron, adducts, anti-pathogen antibody conjugates  
 RL: BIOL (Biological study)  
 (infection diagnosis or treatment with)  
 IT 58-14-0D, Pyrimethamine, monoclonal antibody fragments conjugates  
 RL: BIOL (Biological study)  
 (malaria therapy with)

L94 ANSWER 60 OF 108 MEDLINE X  
 AN 92015631 MEDLINE  
 DN 92015631  
 TI From the Centers for Disease Control. Self-induced malaria  
 associated with **malariaotherapy** for Lyme disease--Texas.  
 AU Anonymous  
 SO JAMA, (1991 Oct 23-30) 266 (16) 2199.  
 Journal code: KFR. ISSN: 0098-7484.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Abridged Index Medicus Journals; Priority Journals; Cancer Journals  
 EM 199201  
 CT Check Tags: Animal; Case Report; Human; Male  
 \*Hyperthermia, Induced: AE, adverse effects  
 \*Lyme Disease: TH, therapy  
 \*Malaria: ET, etiology  
 \*Plasmodium vivax  
 Texas

L94 ANSWER 61 OF 108 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V. X  
 AN 91338896 EMBASE  
 TI Self-induced malaria associated with **malariaotherapy** for  
 Lyme disease - Texas.  
 AU Rawlings J.; Perdue J.N.; Perrotta D.; Simpson D.  
 CS Division of Parasitic Diseases, Malaria Branch, National Center for  
 Infectious Diseases, CDC, Atlanta, GA, United States  
 SO J. AM. MED. ASSOC., (1991) 266/16 (2199).  
 ISSN: 0098-7484 CODEN: JAMAAP  
 CY United States  
 DT Journal  
 FS 004 Microbiology  
 037 Drug Literature Index  
 LA English  
 CT EMTAGS: infection (0310); etiology (0135); therapy (0160); North  
 America (0405); invertebrate (0723); protozoon (0751); mammal  
 (0738); human (0888); male (0041); case report (0151); priority  
 journal (0007); note (0063)  
 Medical Descriptors:  
 \*lyme arthritis: ET, etiology  
 \*lyme arthritis: DT, drug therapy  
 \*malaria: ET, etiology  
 \*malaria: DT, drug therapy  
 \*arthralgia: ET, etiology  
 united states  
 plasmodium vivax  
 human  
 male  
 case report  
 priority journal  
 note  
 Drug Descriptors:  
 \*chloroquine: DT, drug therapy  
 RN 50-63-5; 54-05-7; 132-73-0; 3545-67-3

L94 ANSWER 62 OF 108 HCAPLUS COPYRIGHT 1998 ACS  
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AN 1992:34006 HCPLUS  
 DN 116:34006  
 TI Enhancement of monocyte antimycobacterial activity by diethyldithiocarbamate (DTC)  
 AU Huebner, L.; Ernst, M.; Von Laer, D.; Schwander, S.; Flad, H. D.  
 CS Dep. Immunol. Cell Biol., Forschungsinst. Borstel, Borstel, D-2061, Germany  
 SO Int. J. Immunopharmacol. (1991), 13(8), 1067-72  
 CODEN: IJIMDS; ISSN: 0192-0561  
 DT Journal  
 LA English  
 CC 1-5 (Pharmacology)  
 AB Diethyldithiocarbamate (DTC) has been recently reported to significantly reduce the incidence of opportunistic infections in HIV-infected patients. The present study addresses the question whether DTC is capable of stimulating antimycobacterial activity of mononuclear phagocytes. The authors found that peripheral blood mononuclear cells (PBMC) of healthy subjects preincubated in vitro with 100-1000 ng/mL of DTC and thereafter infected with **Mycobacterium tuberculosis** H37RV or M. avium-intracellular complex exhibited an enhanced antimycobacterial activity compared with control-incubated cells as assessed by the detn. of mycobacterial colony-forming units. In subsequent expts. monocytes from healthy volunteers injected with 5 mg/kg body wt. of DTC were tested ex vivo for antimycobacterial activity at various periods of time after injection. Injection of DTC resulted in a significant enhancement of antimycobacterial activity which was most evident 24 h after DTC injection. The authors conclude that DTC stimulates the antimicrobial function of mononuclear phagocytes both in vitro and in vivo. These results may explain the favorable clin. course obsd. in HIV-infected patients treated with DTC and may serve as a basis for treatment with DTC in patients with drug-resistant atypical mycobacteriosis.  
 ST diethyldithiocarbamate monocyte Mycobacterium infection AIDS  
 IT Monocyte  
     (antimycobacterial activity of, diethyldithiocarbamate enhancement of, of normal and HIV-infected **humans**)  
 IT Bactericides, Disinfectants, and Antiseptics  
     (ciethyldithiocarbamate, monocyte antimycobacterial activity enhancement by, of normal and HIV-infected **humans**)  
 IT Acquired immune deficiency syndrome  
     (diethyldithiocarbamate enhancement of antimycobacterial activity of monocytes from **humans** with)  
 IT Mycobacterium avium  
**Mycobacterium tuberculosis**  
     (infection with, of monocyte, growth inhibition in, diethyldithiocarbamate enhancement of, of normal and HIV-infected **humans**)  
 IT 147-84-2, biological studies  
 RL: BIOL (Biological study)  
     (monocyte antimycobacterial activity enhancement by, of normal and HIV-infected **humans**)  
 L94 ANSWER 63 OF 108 MEDLINE  
 AN 91375391 MEDLINE  
 DN 91375391  
 TI Update: self-induced malaria associated with **malariotherapy** \* for Lyme disease--Texas.  
 AU Anonymous  
 SO MMWR. MORBIDITY AND MORTALITY WEEKLY REPORT, (1991 Oct 4) 40 (39) 665-6.  
 CY Journal code: NE8. ISSN: 0149-2195.  
 DT United States  
 DT Journal; Article; (JOURNAL ARTICLE)

LA English  
 FS Priority Journals  
 EM 199112  
 AB In December 1990, the Texas Department of Health (TDH) was contacted by a man who had recently moved from the northeastern United States and who was considering **malariotherapy** for Lyme disease (LD). He described a 2-year history of unsuccessful treatment with multiple antibiotics for arthralgias and palpitations, which had been diagnosed as LD.  
 CT Check Tags: Animal; Case Report; Human; Male  
 \***Hyperthermia, Induced: AE, adverse effects**  
 \*Lyme Disease: TH, therapy  
 \*Malaria: ET, etiology  
 \*Plasmodium vivax  
 Texas  
 L94 ANSWER 64 OF 108 HCPLUS COPYRIGHT 1998 ACS  
 AN 1991:677344 HCPLUS  
 DN 115:277344  
 TI Surface expression of malarial antigens in *E. coli* and *S. typhimurium*: induction of serum antibody response upon oral vaccination of mice  
 AU Schorr, Joachim; Knapp, Bernhard; Hundt, Erika; Kuepper, Hans; Amann, Egon  
 CS Res. Lab., Behringwerke A.-G., Marburg, D-3550, Fed. Rep. Ger.  
 SO Vaccines 91: Mod. Approaches New Vaccines Incl. Prev. AIDS, [Annu. Meet. Mod. Approaches New Vaccines], 8th (1991), Meeting Date 1990, 387-92. Editor(s): Chanock, Robert M. Publisher: Cold Spring Harbor Lab., Plainview, N. Y.  
 CODEN: 57HGAV  
 DT Conference  
 LA English  
 CC 15-2 (Immunochemistry)  
 AB The *Escherichia coli* OmpA protein can serve as a carrier for the expression of foreign antigens at the surface of gram-neg. bacteria. OmpA vectors were used to express immunogenic segments of the protective *Plasmodium falciparum* blood-stage antigens SERP and HRPII in *E. coli* and *Salmonella typhimurium*. Upon induction, the malaria-specific sequences of 189 (HRPII) and 451 (SERP) amino acids, fused into the *E. coli* OmpA protein, were expressed. Immunofluorescence studies, immunogold-staining expts., and trypsin treatment of live *E. coli* cells expressing the HRPII-OmpA and SERP-OmpA fusion proteins demonstrate the surface exposition of these malarial antigens. Oral vaccination of mice with a *Salmonella* vaccine strain expressing the malarial antigens at its surface resulted in the induction of specific serum IgG antibodies. Thus, the OmpA surface expression system in combination with *Salmonella* vaccine strains can be used to deliver efficiently large antigens to the mucosal immune system.  
 ST antigen malaria expression *Salmonella* *Escherichia*  
 IT Vaccines  
 (antibody response to malaria antigen expression in microorganisms in relation to)  
 IT Malaria  
 (antigens in, expression of, in microorganism, antibody response in relation to)  
 IT *Plasmodium falciparum*  
 (antigens of, expression of, in microorganism, malaria vaccine and antibody response in relation to)  
 IT *Escherichia coli*  
*Salmonella typhimurium*  
 (malaria antigen expression in, antibody response in relation to)  
 IT Antibodies  
 RL: PRP (Properties)

(malaria antigen induction of, antigen expression in microorganisms in relation to)

IT Antigens

RL: BIOL (Biological study)

(of malaria, expression of, in microorganism, antibody response in relation to)

L94 ANSWER 65 OF 108 MEDLINE

AN 91080259 MEDLINE

DN 91080259

TI From the Centers for Disease Control. Imported malaria associated with **malariaotherapy** of Lyme disease--New Jersey.

AU Anonymous

SO JAMA, (1991 Jan 16) 265 (3) 317-8.

Journal code: KFR. ISSN: 0098-7484.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Abridged Index Medicus Journals; Priority Journals; Cancer Journals

EM 199104

CT Check Tags: Animal; Human

\***Hyperthermia, Induced: AE, adverse effects**

\***Lyme Disease: TH, therapy**

**Malaria: EP, epidemiology**

\***Malaria: ET, etiology**

**New Jersey: EP, epidemiology**

\***Plasmodium vivax**

L94 ANSWER 66 OF 108 HCAPLUS COPYRIGHT 1998 ACS

AN 1991:179675 HCAPLUS

DN 114:179675

TI Functional expression of the dihydrofolate reductase and thymidylate synthetase activities of the human malaria parasite **Plasmodium falciparum** in *Escherichia coli*

AU Hall, Stephen J.; Sims, Paul F. G.; Hyde, John E.

CS Inst. Sci. Technol., Univ. Manchester, Manchester, M60 1QD, UK

SO Mol. Biochem. Parasitol. (1991), 45(2), 317-30

CODEN: MBIPDP; ISSN: 0166-6851

DT Journal

LA English

CC 3-4 (Biochemical Genetics)

Section cross-reference(s): 10

AB A recombinant system was developed that directs the functional expression from *Escherichia coli* of both dihydrofolate reductase-thymidylate synthetase (DHFR-TS) and the isolated DHFR domain from **Plasmodium falciparum**. Both products are **inhibitory** to a no. of *E. coli* cell

lines to the extent that cell growth ceases immediately upon induction. This dramatic inhibition is not seen in strain AB1899, in which amts. of plasmoidal protein of up to 100 times the basal *E. coli* TS level can be accumulated. However, as well as the full-length DHFR-TS mol., smaller proteins carrying an intact TS substrate-binding site are produced. These represent ca. 60-75% of the total plasmoidal protein expressed and are obsd. in every *E. coli* strain examd. They are not derived by degrdn. of the parent DHFR-TS mol., but can be correlated with the sizes of proteins expected to be produced if erroneous initiation of translation were occurring at 3 internal methionine residues.

ST **Plasmodium dihydrofolate reductase gene cloning** *Escherichia*

IT **Escherichia coli**

(cloning and expression in, of dihydrofolate reductase and thymidylate synthetase genes of **Plasmodium falciparum**)

IT **Plasmodium falciparum**

(dihydrofolate reductase-thymidylate synthetase gene of, cloning

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IT and expression of, in *Escherichia coli*)  
 IT Gene and Genetic element, microbial  
 RL: BIOL (Biological study)  
 (for dihydrofolate reductase and thymidylate synthetase, of  
 Plasmodium **falciparum**, cloning and expression in  
*Escherichia coli* of)  
 IT Molecular cloning  
 (of dihydrofolate reductase and thymidylate synthetase genes, of  
 Plasmodium **falciparum**, in *Escherichia coli*)  
 IT 9002-03-3, Dihydrofolate reductase 9031-61-2, Thymidylate  
 synthetase  
 RL: PRP (Properties)  
 (gene for, of Plasmodium **falciparum**, cloning and  
 expression in *Escherichia coli* of)

L94 ANSWER 67 OF 108 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.  
 AN 91113940 EMBASE  
 TI Epidemiologic notes and reports: Imported malaria associated with  
**malariaotherapy** of Lyme disease - New Jersey.  
 AU Mertz K.  
 CS New Jersey State Department of Health, Division of Parasitic  
 Diseases, Center for Infectious Diseases, Trenton, NJ, United States  
 SO ARCH. DERMATOL., (1991) 127/2 (161).  
 ISSN: 0003-987X CODEN: ARDEAC  
 CY United States  
 DT Journal  
 FS 004 Microbiology  
 013 Dermatology and Venereology  
 017 Public Health, Social Medicine and Epidemiology  
 037 Drug Literature Index  
 LA English  
 CT EMTAGS: epidemiology (0400); infection (0310); therapy (0160);  
 mammal (0738); human (0888); priority journal (0007); note (0063)  
 Medical Descriptors:  
 \*epidemiology  
 \*malaria: DT, drug therapy  
 \*lyme arthritis  
 human  
 priority journal  
 note  
 Drug Descriptors:  
 \*chloroquine: DT, drug therapy  
 RN 50-63-5; 54-05-7; 132-73-0; 3545-67-3

L94 ANSWER 68 OF 108 CANCERLIT  
 AN 92121627 CANCERLIT  
 DN 92121627  
 TI EFFECTS OF ACETYL-L-CARNITINE ORAL ADMINISTRATION ON LYMPHOCYTE  
 ANTIBACTERIAL ACTIVITY AND TNF-ALPHA LEVELS IN PATIENTS WITH ACTIVE  
 PULMONARY TUBERCULOSIS. A RANDOMIZED DOUBLE BLIND VERSUS PLACEBO  
 STUDY.  
 AU Jirillo E; Altamura M; Munno I; Pellegrino N M; Sabato R; Di Fabio  
 S; De Simone C  
 CS Cattedra di Immunologia, Universita di Bari, Italy.  
 SO IMMUNOPHARMACOLOGY AND IMMUNOTOXICOLOGY, (1991). Vol. 13, No. 1-2,  
 pp. 135-46.  
 Journal code: IAI. ISSN: 0892-3973.  
 DT (CLINICAL TRIAL)  
 Journal; Article; (JOURNAL ARTICLE)  
 (RANDOMIZED CONTROLLED TRIAL)  
 FS MEDL; L; Priority Journals  
 LA English  
 OS MEDLINE 92121627  
 EM 199203

AB Acetyl-L-carnitine (ALC), a drug for the treatment of ageing-related neuroendocrine dysfunctions, was orally administered--2 gm/day for 30 days--to 10 patients with active pulmonary tuberculosis (TBC). Lymphocyte-mediated antibacterial activity and serum levels of tumor necrosis factor (TNF)-alpha were evaluated before and after treatment, comparing the values with those of 10 TBC patients receiving placebo. Results show that by day 30, antibacterial activity remained unmodified or increased in ALC-treated subjects, while decreased in the placebo group. No influence of ALC on TNF-alpha levels was detectable. These data suggest that the host's immune responses to **M. tuberculosis** infection can be selectively modulated by drugs acting on the neuroendocrine axis.

CT Check Tags: Female; Human; Male  
 Acetylcarnitine: AD, administration & dosage  
**\*Acetylcarnitine: TU, therapeutic use**  
**Adjuvants, Immunologic: AD, administration & dosage**  
**Adjuvants, Immunologic: TU, therapeutic use**  
 Administration, Oral  
 Adult  
 Aged  
 Blood Bactericidal Activity: DE, drug effects  
 Double-Blind Method  
 Lymphocytes: DE, drug effects  
 Lymphocytes: IM, immunology  
 Middle Age  
**\*Tuberculosis, Pulmonary: DT, drug therapy**  
**Tuberculosis, Pulmonary: IM, immunology**  
 Tumor Necrosis Factor: ME, metabolism

RN 14992-62-2 (Acetylcarnitine)  
 CN 0 (Adjuvants, Immunologic); 0 (Tumor Necrosis Factor)

L94 ANSWER 69 OF 108 MEDLINE  
 AN 90220775 MEDLINE  
 DN 90220775  
 TI Should we try **malariatherapy** for Lyme disease? [letter].  
 AU Heimlich H J  
 SO NEW ENGLAND JOURNAL OF MEDICINE, (1990 Apr 26) 322 (17) 1234-5.  
 Journal code: NOW. ISSN: 0028-4793.  
 CY United States  
 DT Letter  
 LA English  
 FS Abridged Index Medicus Journals; Priority Journals; Cancer Journals  
 EM 199007  
 CT Check Tags: Human  
**\*Hyperthermia, Induced**  
**\*Lyme Disease: TH, therapy**  
 Malaria: IM, immunology  
 Neurosyphilis: TH, therapy

L94 ANSWER 70 OF 108 HCAPLUS COPYRIGHT 1998 ACS  
 AN 1991:178376 HCAPLUS  
 DN 114:178376  
 TI Synergistic refampicin-based drug compositions for treatment of mycobacterial diseases  
 IN Freerksen, Enno Prof Dr Dr  
 PA Saarstickstoff-Fatol G.m.b.H., Fed. Rep. Ger.  
 SO Ger. Offen., 6 pp.  
 CODEN: GWXXBX  
 PI DE 3911263 A1 901011  
 AI DE 89-3911263 890407  
 DT Patent  
 LA German  
 IC ICM A61K031-63

ICI ICS A61K031-505; A61K031-495; A61K031-44  
 A61K031-63, A61K031-505, A61K031-495, A61K031-44  
 CC 1-5 (Pharmacology)  
 AB Cotrifazide (rifampicin-sulfamethoxazole-trimethoprim-isoniazid mixt.) and emdetin (rifampicin-sulfamethoxazole-trimethoprim-protionamide mixt.) are synergistic drugs for the treatment of mycobacterial diseases, opportunistic infections in AIDS, leprosy, malaria and hospitalism. Repeated oral administration of cotrifazide decreased the serum activity of *Mycobacterium marinum*, **M. tuberculosis** and *M. avium*, in **humans**.  
 ST bactericide mycobacteria cotrifazide emdetin; AIDS opportunistic infection contrifazide emdetin; leprosy drug cotrifazide emdetin; malaria drug cotrifazide emdetin  
 IT Leprosy  
 Malaria  
 (treatment of, with cotrifazide and emdetin)  
 IT **Immunodeficiency**  
 (acquired **immune deficiency** syndrome,  
 treatment of mycobacterial infections in, with  
 cotrifazide and emdetin)  
 IT Bactericides, Disinfectants, and Antiseptics  
 (medical, cotrifazide and emdetin, for treatment of mycobacterial diseases)  
 IT 133468-04-9 133468-05-0  
 RL: BIOL (Biological study)  
 (mycobacterial diseases treatment by)

L94 ANSWER 71 OF 108 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.  
 AN 90138206 EMBASE  
 TI Should we try **malariatherapy** for Lyme disease?. X  
 AU Heimlich H.J.  
 CS Heimlich Institute, Cincinnati, OH 45208, United States  
 SO NEW ENGL. J. MED., (1990) 322/17 (1234-1235).  
 ISSN: 0028-4793 CODEN: NEJMAG  
 CY United States  
 DT Journal  
 FS 004 Microbiology  
 008 Neurology and Neurosurgery  
 LA English  
 CC 037.11.04.00.00. Drug Literature Index/ANTIINFECTIVE  
 AGENTS/Antiprotozoal drugs  
 CT EMTAGS: infection (0310); therapy (0160); nervous system (0910);  
 human (0888); bacterium (0762); letter (0008); priority journal  
 (0007)  
 Medical Descriptors:  
 \*syphilis: DT, drug therapy  
 \*lyme arthritis: DT, drug therapy  
 \*malaria: DT, drug therapy  
 nervous system  
 tumor necrosis factor  
 interleukin 1  
 Drug Descriptors:  
 \*antimalarial agent: DT, drug therapy

L94 ANSWER 72 OF 108 MEDLINE X  
 AN 91056807 MEDLINE  
 DN 91056807  
 TI Imported malaria associated with **malariatherapy** of Lyme disease--New Jersey.  
 AU Anonymous  
 SO MMWR. MORBIDITY AND MORTALITY WEEKLY REPORT, (1990 Dec 7) 39 (48)  
 873-5.  
 Journal code: NE8. ISSN: 0149-2195.  
 CY United States

DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199103  
 CT Check Tags: Animal; Human  
**\*Hyperthermia, Induced: AE, adverse effects**  
**\*Lyme Disease: TH, therapy**  
**Malaria: EP, epidemiology**  
**\*Malaria: ET, etiology**  
**New Jersey: EP, epidemiology**  
**\*Plasmodium vivax**

L94 ANSWER 73 OF 108 BIOSIS COPYRIGHT 1998 BIOSIS  
 AN 90:215658 BIOSIS  
 DN BA89:112948  
 TI BACTERICIDAL ACTIVITY IN-VITRO OF VARIOUS RIFAMYCINS AGAINST  
**MYCOBACTERIUM-AVUM AND MYCOBACTERIUM-TUBERCULOSIS**  
 AU HEIFETS L B; LINDHOLM-LEVY P J; FLORY M A  
 CS NATIONAL JEWISH CENTER IMMUNOL. RESPIRATORY MED., 1400 JACKSON ST.,  
 DENVER, COLO. 80206.  
 SO AM REV RESPIR DIS 141 (3). 1990. 626-630. CODEN: ARDSBL ISSN:  
 0003-0805  
 LA English  
 AB Minimal **inhibitory** and bactericidal concentrations (MICs  
 and MBCs) of rifampin (RMP), rifabutin (RBT), rifapentine (RPT),  
 CGP-7040, and P-DEA, were determined for 50 *M. avium* strains in 7H12  
 liquid medium radiometrically under various pH conditions. Half were  
 isolated from patients with AIDS and the other half from patients  
 without AIDS but with pulmonary disease. The MICs and MBCs were also  
 determined in 7H12 broth for ***M. tuberculosis***  
 strains. The MIC results obtained with ***M. tuberculosis***  
 strains, and the serum peak levels in  
 humans, were used as standards for interpretation of the MICs  
 and MBCs of the rifamycins for *M. avium*. The bactericidal activity of  
 all rifamycins for *M. avium* was substantially lower than for  
***M. tuberculosis***. The majority of *M. avium* strains  
 was within the "susceptible" category, e.g., comparable to  
 susceptible ***M. tuberculosis*** strains, when tested  
 with CGP-7040 and RPT, and all of them were "moderately susceptible"  
 when tested with P-DEA. On the basis of in vitro bacteriostatic and  
 bactericidal activity, it seems that three agents, RPT, P-DEA, and  
 CGP-7040 have more potential than do RMP and RBT against *M. avium*  
 disease.  
 ST **HUMAN RIFAMPIN RIFABUTIN RIFAPENTINE CGP-7040 P-DEA**  
**ANTIBACTERIAL-DRUG ACQUIRED IMMUNE DEFICIENCY**  
**SYNDROME PULMONARY DISEASE MINIMUM INHIBITORY CONCENTRATION**  
**MINIMUM BACTERICIDAL CONCENTRATION**  
 RN 13292-46-1 (RIFAMPIN)  
 13553-79-2 (RIFAMYCINS)  
 61379-65-5 (RIFAPENTINE)  
 72559-06-9 (RIFABUTIN)  
 122188-44-7 (CGP-7040)  
 CC Biochemical Studies-General 10060  
 Pathology, General and Miscellaneous-Therapy \*12512  
 Blood, Blood-Forming Organs and Body Fluids-Blood, Lymphatic and  
 Reticuloendothelial Pathologies 15006  
 Blood, Blood-Forming Organs and Body Fluids-Lymphatic Tissue and  
 Reticuloendothelial System 15008  
 Respiratory System-General; Methods 16001  
 Respiratory System-Pathology \*16006  
 Pharmacology-Clinical Pharmacology \*22005  
 Virology-Animal Host Viruses 33506  
 Immunology and Immunochemistry-Immunopathology, Tissue Immunology

\*34508  
 Medical and Clinical Microbiology-Bacteriology \*36002  
 Medical and Clinical Microbiology-Virology \*36006  
 Chemotherapy-Antibacterial Agents \*38504  
 BC Retroviridae-Lentivirinae 02242  
 Mycobacteriaceae 05822  
**Hominidae 86215**

L94 ANSWER 74 OF 108 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.  
 AN 90204660 EMBASE  
 TI The clinical and **parasitological** presentation of  
**Plasmodium falciparum** malaria in Uganda is  
 unaffected by **HIV-1** infection.  
 AU Muller O.; Moser R.  
 CS German Red Cross Society, Baerwaldstrasse 55, 1000 Berlin 61,  
 Germany, Federal Republic of  
 SO TRANS. R. SOC. TROP. MED. HYG., (1990) 84/3 (336-338).  
 ISSN: 0035-9203 CODEN: TRSTAZ  
 CY United Kingdom  
 DT Journal  
 FS 004 Microbiology  
 047 Virology  
 LA English  
 AB The relation between **Plasmodium falciparum**  
 malaria and symptomatic human **immunodeficiency** virus 1 ( **HIV-1** )  
 infection was investigated in paediatric and adult  
 patients in Kampala, Uganda, from 1987 to 1989. Both infections  
 contributed largely to hospital morbidity. Of 1527 clinically  
 suspicious in-patients, 61% were positive for **HIV-1**  
 infection. 52% of patients with positive **HIV-1** serology  
 fulfilled the World Health Organization clinical case definition for  
 acquired **immune deficiency** syndrome (AIDS) in  
 Africa. No association could be found between **HIV-1**  
 infection and malaria either in paediatrics or in adults. **P**  
**. falciparum** **parasitaemia** was present in 18% of  
 all patients and no differences in prevalence of malaria infection  
 or in **parasite** density could be demonstrated between  
**HIV-1** positive and **HIV-1** negative patients. The  
 comparison of clinical symptoms showed typical differences in  
 AIDS-related morbidity but no difference in malaria-specific  
 morbidity. Also, the response to malaria **treatment** was the  
 same in **HIV-1** positive and **HIV-1** negative  
 patients. **P. falciparum** malaria does not appear  
 to act as an opportunistic agent in AIDS patients in Uganda.  
 CC 037.11.04.00.00. Drug Literature Index/ANTINFECTIVE  
 AGENTS/Antiprotozoal drugs  
 CT EMTAGS: **etiology** (0135); epidemiology (0400); protozoon  
 (0751); Africa south of the Sahara (4032); therapy (0160);  
 controlled study (0197); clinical article (0152); **human**  
 (0888); virus (0761); infection (0310); ethnic or racial aspects  
 (0050); article (0060); priority journal (0007)  
 Medical Descriptors:  
 \*malaria: ET, etiology  
 \*malaria: EP, epidemiology  
 \*human immunodeficiency virus infection: ET, etiology  
 \*human immunodeficiency virus infection: EP, epidemiology  
 \*plasmodium falciparum  
 \*morbidity  
 uganda  
 Drug Descriptors:  
 \*chloroquine: DT, drug therapy  
 \*sulfadoxine: DT, drug therapy  
 \*sulfadoxine: CB, drug combination  
 \*pyrimethamine: DT, drug therapy

blood transfusion  
 fever  
 drug efficacy  
 antibody detection  
 enzyme linked immunosorbent assay  
**parasitemia**  
 drug response  
**\*plasmodium falciparum**  
**parasite identification**  
 Drug Descriptors:  
 \*quinine: DT, drug therapy  
 RN 130-89-2; 130-95-0; 549-48-4; 7549-43-1

L94 ANSWER 76 OF 108 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.  
 AN 91123111 EMBASE  
 TI The role of cytokines in malaria infection.  
 AU Maheshwari R.K.  
 CS Department of Pathology, Uniformed Services University of the Health Sciences, Bethesda, MD 20814-4799, United States  
 SO BULL. WHO, (1990) 68/SUPPL. (138-144).  
 ISSN: 0043-9686 CODEN: BWHOA6  
 CY Switzerland  
 DT Journal  
 FS 004 Microbiology  
 026 Immunology, Serology and Transplantation  
 030 Pharmacology  
 037 Drug Literature Index  
 LA English  
 AB We have tested the prophylactic effect of **Escherichia coli**-derived recombinant human interferon gamma (rHuIFN-(.gamma.)) against sporozoite- or trophozoite-induced **Plasmodium cynomolgi** B malaria infection in rhesus **monkeys**. Data show that **treatment** with only five doses of rHuIFN-(.gamma.) (0.1 mg/kg body weight) given on days -2, 0, and +2 after infection protected the **monkeys** against sporozoite-induced **P. cynomolgi** infection. Animals initially protected by rHuIFN-(.gamma.) **treatment** remained susceptible to reinfection. No inhibitory effect of rHuIFN-(.gamma.) was seen against trophozoite-induced infection. We have also tested the effect of recombinant human tumour necrosis factor (rHuTNF) in rhesus **monkeys**. No significant activity of TNF was seen against trophozoite-induced **P. cynomolgi** B infection. rHuIFN-(.gamma.) inhibited schizogony in functional human hepatocytes infected with **P. falciparum** sporozoites. These results suggest that the inhibitory effect of IFN is limited to the exoerythrocytic stage of **parasite** development. Interleukin-1 (IL-1) also inhibited hepatic development of **P. falciparum** sporozoites; however, IL-1 **treatment** was effective only when applied before sporozoite inoculation. IL-2 and TNF were effective in higher doses.

CT EMTAGS: infection (0310); prevention (0165); invertebrate (0723); protozoon (0751); **monkey** (0725); mammal (0738); therapy (0160); diagnosis (0140); nonhuman (0777); animal experiment (0112); priority journal (0007); conference paper (0061)  
 Medical Descriptors:  
 \*malaria: PC, prevention  
 \*plasmodium cynomolgi  
 \*sporozoite  
 \*trophozoite  
 \*immunity  
**monkey**  
 prophylaxis  
 provocation test  
 nonhuman

further treatment of any kind. During this time, the patients remained clinically well. An additional six **HIV**-positive patients were **treated** with **malariatherapy** and have remained clinically well during the first 6 months after treatment. These initial studies demonstrate **malariatherapy** results in an increase in CD4 counts of HIV-positive patients. Furthermore, these increases persist beyond the presence of malaria, for at least 2 years.

ST RESEARCH ARTICLE; **PLASMODIUM VIVAX; HUMAN**  
 ; **HIV; HUMAN IMMUNODEFICIENCY VIRUS; PARASITE;**  
**HOST; PATIENT; PATHOGEN; MALARIA; MALARIOThERAPY; CD4**  
**COUNT; INFECTION; CLINICAL IMMUNOLOGY; PARASITIC DISEASE;**  
**BLOOD AND LYMPHATIC DISEASE; THERAPEUTIC METHOD**  
 CC Pathology, General and Miscellaneous-Therapy \*12512  
 Immunology and Immunochemistry-Immunopathology, Tissue Immunology  
 \*34508  
 Medical and Clinical Microbiology-Virology \*36006  
 Parasitology-Medical \*60504  
 Invertebrata, Comparative and Experimental Morphology, Physiology and  
 Pathology-Protozoa \*64002  
 BC Retroviridae 02623  
 Sporozoa 35400  
**Hominidae 86215**

L94 ANSWER 13 OF 108 HCAPLUS COPYRIGHT 1998 ACS  
 AN 1997:87570 HCAPLUS  
 DN 126:139350  
 TI **Drug treatment of HIV-related opportunistic infections**  
 AU Klepser, Michael E.; Klepser, Teresa B.  
 CS Division of Clinical and Administrative Pharmacy, College of Pharmacy, University of Iowa, Iowa City, IA, USA  
 SO Drugs (1997), 53(1), 40-73  
 CODEN: DRUGAY; ISSN: 0012-6667  
 PB Adis  
 DT Journal; General Review  
 LA English  
 CC 1-0 (Pharmacology)  
 AB A review with 178 refs. The AIDS epidemic has led to the emergence of several disease entities which in the pre-AIDS era were rare or seemingly innocuous. Experience of treating these diseases varies. In some instances, such as *Pneumocystis carinii* pneumonia, there is an abundance of published literature to direct our course of action. However, for many of these newly recognized diseases our treatment experience is limited. Furthermore, in many instances, well controlled trials evaluating treatment modalities in the AIDS population are lacking. We have identified 13 disease entities (*P. carinii* pneumonia, toxoplasmosis, cryptococcosis, histoplasmosis, **Mycobacterium tuberculosis**, *Mycobacterium avium* complex, cytomegalovirus, coccidioidomycosis, isosporiasis, candidosis, Kaposi's sarcoma, herpes simplex virus, and varicella zoster virus) and have reviewed the current literature with regard to their treatment.  
 ST review HIV infection  
 IT Infection  
 (HIV-related; drug **treatment of HIV**  
 -related opportunistic infections in **humans**)  
 IT **Human immunodeficiency virus 1**  
 (related infection; drug **treatment of HIV**  
 -related opportunistic infections in **humans**)

L94 ANSWER 14 OF 108 HCAPLUS COPYRIGHT 1998 ACS  
 AN 1997:160186 HCAPLUS  
 TI Computerized HIV and OI's information database systems  
 KATHLEEN FULLER BT/LIBRARY 308-4290

parasite  
10

RN \*pyrimethamine: CB, drug combination  
50-63-5; 54-05-7; 132-73-0; 3545-67-3; 2447-57-6; 58-14-0

L94 ANSWER 75 OF 108 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.

AN 90335595 EMBASE

TI Incidence of malaria and efficacy of oral quinine in patients recently infected with human **immunodeficiency** virus in Kinshasa, Zaire.

AU Colebunders R.; Bahwe Y.; Nekwei W.; Ryder R.; Perriens J.; Nsimba K.; Turner A.; Francis H.; Lebughe I.; Van der Stuyft P.; Piot P.

CS Projet SIDA, Department of Public Health, Kinshasa, Zaire

SO J. INFECT., (1990) 21/2 (167-173).

ISSN: 0163-4453 CODEN: JINFD2

CY United Kingdom

DT Journal

FS 004 Microbiology  
006 Internal Medicine  
047 Virology

LA English

AB There is concern that the impaired cell mediated immunity caused by the human **immunodeficiency** virus may increase the risk or severity of **Plasmodium falciparum** infection and could lead eventually to a decreased response to standard antimalarial **treatment**. In 1986, at Mama Yemo Hospital, Kinshasa, Zaire, the incidence of malaria was determined in a cohort of 59 patients who had recently acquired **HIV-1** infection through blood transfusion and in a cohort of 83 **HIV-1** seronegative controls who were recipients of **HIV-1** seronegative blood. All cohort patients were asked to visit the study physician whenever they developed fever. On each of these occasions thick film was examined for the presence of malarial **parasites**. **HIV-1** seropositive patients presented more often with episodes of fever per person month observation than **HIV-1** seronegative patients ( $P = 0.003$ ). The total number of positive thick films per person months observation was significantly higher among **HIV-1** seropositive patients than among the **HIV-1** seronegative ones, but percentages of positive thick films per episode of fever were the same in both groups (46%). During a 5 month period, cohort patients presenting with a moderate attack of malaria were **treated** with oral quinine 20 mg/kg daily in two doses for 5 days. Twenty-three (92%) of 25 **HIV-1** seropositive patients and 28 (82%) of 34 **HIV-1** seronegative patients had a negative film 7 days after starting **treatment**. This study suggests that there seems to be no direct interaction of major clinical importance between **HIV** infection and malaria.

CC 037.11.04.00.00. Drug Literature Index/ANTIINFECTIVE  
AGENTS/Antiprotozoal drugs

CT EMTAGS: **diagnosis** (0140); **therapy** (0160); **epidemiology** (0400); **virus** (0761); Africa south of the Sahara (4032); **child** (0022); **blood and hemopoietic system** (0927); **enzyme** (0990); **major clinical study** (0150); **controlled study** (0197); **human** (0888); **infection** (0310); **protozoon** (0751); **male** (0041); **female** (0042); **oral drug administration** (0181); **article** (0060); **priority journal** (0007)

Medical Descriptors:  
**\*malaria**: DI, **diagnosis**  
**\*malaria**: DT, **drug therapy**  
**\*malaria**: EP, **epidemiology**  
**\*morbidity**  
**\*human immunodeficiency virus** 1  
**\*human immunodeficiency virus infection**  
**\*zaire**  
**child**

\*quinine: DT, drug therapy  
 \*fansidar: DT, drug therapy  
 RN 68583-22-2; 68583-29-9; 50-63-5; 54-05-7; 132-73-0; 3545-67-3;  
 18323-44-9; 130-89-2; 130-95-0; 549-48-4; 7549-43-1; 37338-39-9

L94 ANSWER 32 OF 108 HCPLUS COPYRIGHT 1998 ACS DUPLICATE 5  
 AN 1996:61908 HCPLUS  
 DN 124:155745  
 TI Liposome-mediated therapy of **human** immunodeficiency virus  
 type-1 and **Mycobacterium** infections  
 AU Duezguenes, Nejat; Flasher, Diana; Pretzer, Elizabeth; Konopka,  
 Krystyna; Slepushkin, Vladimir A.; Steffan, Gerhard; Salem, Isam I.;  
 Reddy, M. Venkata; Gangadharam, Pattisapu R.J.  
 CS School of Dentistry, University of the Pacific, San Francisco, CA,  
 94115, USA  
 SO J. Liposome Res. (1995), Volume Date 1995, 5(4), 669-91  
 CODEN: JLREE7; ISSN: 0898-2104  
 DT Journal; General Review  
 LA English  
 CC 63-0 (Pharmaceuticals)  
 AB A review, with 70 refs. on the authors recent work on the use of  
 liposomes for the delivery of antiviral agents to **human**  
 immunodeficiency virus type-1 (HIV-1) infected cells, and  
 antimycobacterial drugs to cells harboring **Mycobacterium avium**  
 complex or **Mycobacterium tuberculosis**. Sol. CD4  
 has been used to target liposomes to HIV-1-infected cells.  
 Antisense oligodeoxynucleotides have been effectively delivered into  
 HIV-1-infected macrophages using pH-sensitive liposomes.  
 PH-sensitive liposomes with serum stability are being developed as  
 in vivo delivery vehicles. Liposomes encapsulating an **HIV**  
 -1 protease **inhibitor** were more effective in inhibiting  
 virus prodn. in infected macrophages than the free drug.  
 ST review liposome bactericide **Mycobacterium** virucide HIV1  
 IT Acquired immune deficiency syndrome  
 Bactericides, Disinfectants, and Antiseptics  
**Mycobacterium avium**  
**Mycobacterium tuberculosis**  
 Tuberculostatics  
 Virucides and Virustats  
 (liposome-mediated therapy of HIV-1 and **Mycobacterium** infections)  
 IT Virus, animal  
 (**human** immunodeficiency 1, liposome-mediated therapy of  
 HIV-1 and **Mycobacterium** infections)  
 IT Pharmaceutical dosage forms  
 (liposomes, liposome-mediated therapy of HIV-1 and **Mycobacterium**  
 infections)

L94 ANSWER 33 OF 108 HCPLUS COPYRIGHT 1998 ACS  
 AN 1995:411658 HCPLUS  
 DN 122:182299  
 TI Comparative complement selection in bacteria enables screening for  
 lead compounds targeted to a purine salvage enzyme of parasites  
 AU Eakin, Ann E.; Nieves-Alicea, Rene; Tosado-Acevedo, Rafael; Chin,  
 Marian S.; Wang, Ching C.; Craig, Sydney P., III  
 CS Sch. Med., Univ. Puerto Rico, San Juan, 00936-5067, P. R.  
 SO Antimicrob. Agents Chemother. (1995), 39(3), 620-5  
 CODEN: AMACQ; ISSN: 0066-4804  
 DT Journal  
 LA English  
 CC 9-2 (Biochemical Methods)  
 Section cross-reference(s): 10  
 AB Expression plasmids encoding the hypoxanthine  
 phosphoribosyltransferase (HPRTs) of Plasmodium **falciparum**  
 , Schistosoma mansoni, Tritrichomonas foetus, and Homo sapiens were

subcloned into genetically deficient *Escherichia coli* that requires complementation by the activity of the recombinant HPRT for growth on semidefined medium. Fifty-nine purine analogs were screened for their abilities to inhibit the growth of these bacteria. Several compds. that selectively altered the growth of the bacteria complemented by the malarial, schistosomal, or tritrichomonial HPRT compared with the growth of bacteria expressing the human enzyme were identified. These results demonstrate that the recombinant approach to screening compds. by complement selection in a comparative manner provides a rapid and efficient method for the identification of new lead compds. selectively targeted to the purine salvage enzymes of parasites.

ST parasite hypoxanthine phosphoribosyltransferase inhibitor screening *Escherichia*; *Plasmodium* hypoxanthine phosphoribosyltransferase inhibitor screening *Escherichia*; *Schistosoma* hypoxanthine phosphoribosyltransferase inhibitor screening *Escherichia*; *Tritrichomonas* hypoxanthine phosphoribosyltransferase inhibitor screening *Escherichia*

IT Antimalarials

***Escherichia coli***

Parasiticides

***Plasmodium falciparum***

*Schistosoma mansoni*

*Tritrichomonas foetus*

(screening in ***Escherichia coli*** for

**inhibitors** of a purine salvage enzyme of parasites)

IT 50-44-2 50-66-8 68-94-0 69-89-6 73-40-5 87-42-3 145-95-9  
 154-42-7 446-86-6, Azathioprine 767-69-1 1198-47-6  
 2036-13-7, 1H-Purine-6-carbonitrile 2545-26-8 10310-21-1  
 14225-97-9 14225-98-0 19447-73-5 19447-75-7 19690-23-4  
 20535-83-5 28128-41-8 37635-77-1 161746-77-6 161746-78-7  
 161746-79-8

RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (inhibitor of a purine salvage enzyme of parasites)

IT 9016-12-0

RL: BSU (Biological study, unclassified); BIOL (Biological study)  
 (inhibitors; screening in ***Escherichia coli*** for **inhibitors** of a purine salvage enzyme of parasites)

L94 ANSWER 34 OF 108 MEDLINE

AN 96026495 MEDLINE

DN 96026495

TI Whole body hyperthermia associated with beta-carotene supplementation in patients with AIDS.

AU Pontiggia P; Bianchi Santamaria A; Alonso K; Santamaria L

CS C Golgi Institute of General Pathology, Centro Tumori, University of Pavia, Italy.

SO BIOMEDICINE AND PHARMACOTHERAPY, (1995) 49 (5) 263-5.

Journal code: A59. ISSN: 0753-3322.

CY France

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199602

AB The objective of this work was to check possible additive beneficial effects of whole body hyperthermia (WBH) associated with beta-carotene (BC) supplementation in patients with AIDS. In a pilot study, 10 HIV positive patients, (8 with AIDS and 2 with AIDS related complex, ARC), after AZT or DDI discontinuation, were first treated with one single session of WBH applied with a non-invasive procedure at 42 degrees C core temperature for one hour, and subsequently supplemented with BC 120 mg daily continuously. All

Agents)

L94 ANSWER 31 OF 108 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.  
 AN 95334702 EMBASE  
 TI [Multiorganic failure in **Plasmodium falciparum**  
 malaria].  
 FALLO MULTIORGANICO EN EL PALUDISMO POR **PLASMODIUM**  
**FALCIPARUM**.  
 AU Botella De Maglia J.; Ceniceros Rozalen I.; Oltra Chorda R.  
 CS Unidad de Medicina Intensiva, Hospital La Fe, La Fe, Cuba  
 SO Revista Clinica Espanola, (1995) 195/10 (688-692).  
 ISSN: 0014-2565 CODEN: RCESA5  
 CY Spain  
 DT Journal  
 FS 004 Microbiology  
 037 Drug Literature Index  
 LA Spanish  
 SL Spanish; English  
 AB A 44-year-old Spanish woman travelled in Kenya without doing correct  
 malarial prophylaxis. Upon her return to Spain, she suffered from  
**Plasmodium falciparum** malaria. She was initially  
**treated** with chloroquine for three days, but her state  
 worsened and she was admitted to our intensive care unit. On  
 admission, **parasitaemia** was 22%. She had hyperpyrexia,  
 obtundation, hypotension, tachycardia, tachypnoea, jaundice,  
 digestive haemorrhage, petechiae in her soles, oliguria with  
 elevation of serum uraemia and creatinine, anaemia,  
 thrombocytopaenia, hypoproteinaemia, hyponatraemia, hypocalcaemia,  
 metabolic acidosis and paramethers of disseminated intravascular  
 coagulation. She was given quinine, sulfadoxine-pyrimethamine and  
 clindamycin. An exchange transfusion was performed, during which an  
 acute pulmonary oedema appeared, initially with high pulmonary  
 artery wedge pressure. She required mechanical ventilation for 16  
 days and haemodialysis for 11 days. She remained in coma and had  
 seizures which required diazepam, phenytoin and thiopentone. She  
 received a total amount of 22 units of packed erythrocytes, 55 of  
 platelets and 15 of plasma. After the first week, she had nosocomial  
 infection due to **Escherichia coli**,  
**Staphylococcus** and **Pseudomonas aeruginosa** and was **treated**  
 with the corresponding antibiotics. She cured completely. This case  
 report gives us the possibility of discussing on frequent problems  
 in the prevention and **treatment** of malaria, and on the  
**treatment** of severe, life-threatening malaria in the setting  
 of the intensive care unit.  
 CT EMTAGS: infection (0310); etiology (0135); therapy (0160);  
 invertebrate (0723); protozoon (0751); organization and management  
 (0142); bacterium (0762); mammal (0738); **human** (0888);  
 case report (0151); female (0042); adult (0018); article (0060)  
 Medical Descriptors:  
 \*malaria: ET, etiology  
 \*malaria: DT, drug therapy  
**plasmodium falciparum**  
 hospital infection  
**escherichia coli**  
**staphylococcus**  
**pseudomonas aeruginosa**  
**human**  
 case report  
 female  
 adult  
 article  
 Drug Descriptors:  
 \*chloroquine: DT, drug therapy  
 \*clindamycin: DT, drug therapy

0 (RNA, Viral)

L94 ANSWER 22 OF 108 HCAPLUS COPYRIGHT 1998 ACS DUPLICATE 2  
 AN 1996:225320 HCAPLUS  
 DN 124:306605  
 TI The effect of thalidomide on the pathogenesis of **human**  
       immunodeficiency virus type 1 and **M. tuberculosis**  
       infection  
 AU Klausner, Jeffrey D.; Makonkawkeyoon, Sanit; Akarasewi, Pasakorn;  
       Nakata, Koh; Kasinrerk, Watchara; Corral, Laura; Dewar, Robin L.;  
       Lane, H. Clifford; Freedman, Victoria H.; Kaplan, Gillia  
 CS Medical Center, New York University, New York, USA  
 SO J. Acquired Immune Defic. Syndr. Hum. Retrovirol. (1996), 11(3),  
       247-57  
 CODEN: JDSRET; ISSN: 1077-9450  
 DT Journal  
 LA English  
 CC 1-5 (Pharmacology)  
 AB Tumor necrosis factor alpha (TNF-.alpha.), a cytokine produced  
       during the host defense against infection, is assocd. with fevers,  
       weakness, and progressive wt. loss. Thalidomide inhibits the  
       synthesis of TNF-.alpha. both in vitro and in vivo and may have  
       clin. usefulness. The authors therefore initiated a pilot study of  
       thalidomide **treatment** in patients with **human**  
       **immunodeficiency** virus type 1 (HIV-1)-assocd. wasting with  
       or without concomitant infection with tuberculosis. Thirty-nine  
       patients were randomly allocated to treatment with either  
       thalidomide or placebo in a double-blind manner for 21 days.  
       Thirty-two patients completed the study. In patients with  
       concomitant HIV-1 and tuberculosis infections, thalidomide therapy  
       was assocd. with a redn. in both plasma TNF-.alpha. levels and HIV-1  
       levels. No significant redn. in either TNF-.alpha. or HIV-1 levels  
       was obsd. in patients with HIV-1 infection only. During the study  
       period, patients receiving thalidomide treatment showed a  
       significant wt. gain (: 6.5%) relative to placebo-treated patients.  
       Patients with simultaneous HIV-1 and tuberculosis infections  
       experienced a higher mean wt. gain during thalidomide treatment than  
       the group of patients with HIV-1 infection only. The results of  
       this pilot study suggest that thalidomide may have a clin. role in  
       enhancing wt. gain and possibly reducing TNF-.alpha. and HIV-1  
       levels in patients with HIV-1 and concomitant mycobacterial  
       infections.  
 ST thalidomide HIV1 virus pathogenesis tuberculosis infection  
 IT Tuberculosis  
       (effect of thalidomide on pathogenesis of **human**  
       immunodeficiency virus type 1 and **Mycobacterium**  
       **tuberculosis** infection in relation to tumor necrosis  
       factor alpha prodn.)  
 IT Virus, animal  
       (**human** immunodeficiency 1, effect of thalidomide on  
       pathogenesis of **human** immunodeficiency virus type 1 and  
       **Mycobacterium tuberculosis** infection in  
       relation to tumor necrosis factor alpha prodn.)  
 IT Lymphokines and Cytokines  
       RL: BPR (Biological process); MFM (Metabolic formation); BIOL  
       (Biological study); FORM (Formation, nonpreparative); PROC (Process)  
       (tumor necrosis factor-.alpha., effect of thalidomide on  
       pathogenesis of **human** immunodeficiency virus type 1 and  
       **Mycobacterium tuberculosis** infection in  
       relation to tumor necrosis factor alpha prodn.)  
 IT 50-35-1, Thalidomide  
       RL: BAC (Biological activity or effector, except adverse); THU  
       (Therapeutic use); BIOL (Biological study); USES (Uses)  
       (effect of thalidomide on pathogenesis of **human**

epidemiology (0400); mammal (0738); **human** (0888); major clinical study (0150); human tissue, cells or cell components (0111); infant (0014); child (0022); preschool child (0015); priority journal (0007); article (0060); adverse drug reaction (0198); iatrogenic disease (0300)

Medical Descriptors:

\*anemia: DI, diagnosis  
 \*anemia: SI, side effect  
 \*malaria: DI, diagnosis  
 \*malaria: DT, drug therapy  
 \*malaria: ET, etiology

**plasmodium falciparum**

zaire

**human immunodeficiency virus infection: CO, complication**

blood transfusion

**parasite isolation**

hematocrit

**treatment planning**

antimalarial activity

nutrition

morbidity

**human**

major clinical study

human tissue

human cell

infant

preschool child

priority journal

article

Drug Descriptors:

\*chloroquine: AE, adverse drug reaction  
 \*chloroquine: DT, drug therapy  
 \*chloroquine: PD, pharmacology

RN 50-63-5; 54-05-7; 132-73-0; 3545-67-3

L94 ANSWER 49 OF 108 CANCERLIT

AN 93306080 CANCERLIT

DN 93306080

TI Antitumor mechanisms of Z-100, an immunomodulatory arabinomannan extracted from **Mycobacterium tuberculosis**: the importance of lymphocytes infiltrated into tumor sites. X

AU Sasaki H; Schmitt D; Hayashi Y; Pollard R B; Suzuki F

CS Department of Internal Medicine, University of Texas Medical Branch, Galveston 77550.

SO NATURAL IMMUNITY, (1993). Vol. 12, No. 2, pp. 104-12.

Journal code: BGD. ISSN: 1018-8916.

DT Journal; Article; (JOURNAL ARTICLE)

FS MEDL; L; Priority Journals

LA English

OS MEDLINE 93306080

EM 199309

AB The mechanisms of increased host resistance to tumors following treatment with Z-100, an arabinomannan extracted from **Mycobacterium tuberculosis**, were investigated in mice bearing syngeneic solid tumors. When BALB/c mice bearing Meth-A solid tumors were treated intralesionally (i.l.) with a 10 mg/kg dose of Z-100, 74% of tumor growth was inhibited in the test group as compared with control mice treated with saline. However, no significant tumor inhibitory activity was observed when these mice were treated with various doses of Z-100 i.p. or i.v. In addition, tumor growth in X-irradiated mice (450 R, whole-body irradiation) and in mice treated with antilymphocyte serum was not suppressed even though Z-100 was administered into the tumor. The number of lymphocytes isolated from Z-100-treated tumor tissues increased

nonhuman  
controlled study  
human cell  
priority journal  
article  
RN 68583-22-2; 68583-38-0

L94 ANSWER 47 OF 108 BIOSIS COPYRIGHT 1998 BIOSIS  
AN 94:128790 BIOSIS  
DN 97141790  
TI Antibiotic sensitivity surveillance for the control of mycobacterial infections.  
AU Fadda G  
CS Ist. di Microbiol. e Virol. dell'Univ. degli Studi di Sassari, Viale San Pietro 43/B, 07100 Sassari, ITL  
SO Igiene Moderna 99 (5). 1993. 632-655. ISSN: 0019-1655  
LA Italian  
AB With the increase in immunodeficiency virus (HIV) infection both in industrial and in developing countries, there has been a resurgence in tuberculosis (TB) and in infections due to non-tuberculous mycobacteria (NTM), mostly *M. avium*-complex (MAC). Since ***M. tuberculosis*** is relatively virulent organism compared with other HIV-associated infections, TB is often the first (sentinel) infectious disease to appear in the setting of this progressive T-cell immunosuppression. When it is **treated** appropriately, the **HIV**-infected patient rarely dies from TB but from subsequent non-tuberculous infection (e.g. MAC). In the last two decades remarkable progress has been made in the treatment of TB mostly due to the better use of preexisting antitubercular drugs. Current protocols, which reintroduced the use of pyrazinamide, allowed to shortened the management of TB. However, when these regimens worked out under trial conditions were applied to field conditions, less favorable results were obtained. To further simplify therapy, improving compliance and to combat resistant mycobacteria and NTM, new antitubercular agents are needed. Various possibilities have emerged, such as the use of amikacin, quinolones, beta-lactamase **inhibitors** associated with beta-lactam compounds and above all the new rifampycines. Conventional testing of mycobacterial susceptibility to antimicrobial drugs is based on growth/ **inhibition** of growth on solid medium (Lowenstein-Jensen, Ogawa, 7H10 or 7H11 agar). This approach provides a reasonable and satisfactory guideline for chemotherapy of tuberculosis. This method requires three or four weeks of incubation, cannot be used for testing of experimental drugs (for which the critical concentrations are not yet established), is not applicable to non tuberculous mycobacteria such as *M. avium*-intracellulare, and does not measure the degree of susceptibility of clinical isolates. To achieve these goals, alternative techniques based on broth cultures have been tried. Among these, the Bactec system for radiometric respirometry is the most widely used. This approach employs liquid media (Middlebrook 7H12) containing a <sup>14</sup>C-labelled carbon source, palmitic acid, which when metabolized by bacteria yield detectable levels of <sup>14</sup>CO<sub>2</sub>. The amount of the <sup>14</sup>CO<sub>2</sub> produced reflects the growth rate of mycobacteria. Susceptibility, that requires 4 to 5 days to report the results, is defined and a certain reduction (99%) of the metabolic activity of tested ***M. tuberculosis*** strain in a drug-containing vial compared to the unexposed control inoculated with a 1/100 dilution of the bacterial inoculum used for the drug-containing vials. In this report we discuss the pharmacological characteristics and "in vitro" antimycobacterial activity of all these drugs, some aspects related to the use of Bactec system, including qualitative and quantitative (MIC determination) drug susceptibility and interaction between drug combinations.

ST JOURNAL ARTICLE; **MYCOBACTERIUM AVIUM**; **MYCOBACTERIUM**

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**TUBERCULOSIS; HUMAN; PYRAZINAMIDE;**  
 ANTIBACTERIAL-DRUG; AMIKACIN; ANTIBACTERIAL-DRUG; RIFAMPICIN;  
 ANTIBACTERIAL-DRUG; THERAPEUTIC EFFICACY; **HUMAN**  
 IMMUNODEFICIENCY VIRUS; OPPORTUNISTIC INFECTION  
 RN 98-96-4 (PYRAZINAMIDE)  
 13292-46-1 (RIFAMPICIN)  
 37517-28-5 (AMIKACIN)  
 CC Biochemical Studies-General 10060  
 Pathology, General and Miscellaneous-Therapy \*12512  
 Pharmacology-Clinical Pharmacology \*22005  
 Immunology and Immunochemistry-Bacterial, Viral and Fungal \*34504  
 Immunology and Immunochemistry-Immunopathology, Tissue Immunology  
 \*34508  
 Medical and Clinical Microbiology-Bacteriology \*36002  
 Medical and Clinical Microbiology-Virology \*36006  
 Chemotherapy-Antibacterial Agents \*38504  
 BC Retroviridae 02623  
 Mycobacteriaceae 08881  
**Hominidae 86215**  
 L94 ANSWER 48 OF 108 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.  
 AN 93115321 EMBASE  
 TI **Plasmodium falciparum**-associated anemia in  
 children at a large urban hospital in Zaire.  
 AU Hedberg K.; Shaffer N.; Davachi F.; Hightower A.; Lyamba B.; Paluku  
 K.M.; Nguyen-Dinh P.; Breman J.G.  
 CS Malaria Branch F-12, Centers for Disease Control, Atlanta, GA 30333,  
 United States  
 SO AM. J. TROP. MED. HYG., (1993) 48/3 (365-371).  
 ISSN: 0002-9637 CODEN: AJTHAB  
 CY United States  
 DT Journal  
 FS 004 Microbiology  
 037 Drug Literature Index  
 038 Adverse Reactions Titles  
 LA English  
 SL English  
 AB Chloroquine-resistant **Plasmodium falciparum**  
 malaria and human **immunodeficiency** virus (**HIV**)  
 infection through blood transfusions used to **treat**  
 malaria-associated anemia are causes of increasing morbidity and  
 mortality among children in Africa. To evaluate the role of malaria  
 and other risk factors for pediatric anemia, we conducted a study of  
 children brought to the emergency ward of a large urban hospital in  
 Kinshasa, Zaire. A total of 748 children ages six through 59 months  
 were enrolled; 318 (43%) children were anemic (hematocrit < 33%),  
 including 74 (10%) who were severely anemic (hematocrit < 20%).  
**Plasmodium falciparum** parasites were  
 detected in 166 children (22%); hematocrits for these children (mean  
 25.8%) were significantly lower than for aperasitemic children (mean  
 33.7%; P < 10-6). Fever with splenomegaly (odds ratio [OR] = 6.5, P  
 = 0.02), **parasitemia** (OR = 3.5, P < 0.001), lower  
 socioeconomic status (OR = 2.0, P = 0.004), and malnutrition (OR =  
 1.8, P = 0.06) were independently associated with anemia in a  
 multivariate model. Recent antimalarial therapy was also associated  
 with a lower hematocrit, suggesting that chloroquine may have  
 aggravated the anemia. A reassessment of the effectiveness of  
 strategies to diagnose and **treat** malaria and malnutrition  
 is necessary to decrease the high prevalence of anemia and the  
 resultant high rate of blood transfusions in areas endemic for  
 malaria and **HIV**.  
 CT EMTAGS: **diagnosis** (0140); **infection** (0310);  
 therapy (0160); etiology (0135); invertebrate (0723); protozoon  
 (0751); Africa (0403); Africa south of the Sahara (4032);  
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inhibition with)  
 IT Nucleotides, polymers  
 RL: BIOL (Biological study)  
 (oligo-, dithiophosphate-linked, infection by pathogen inhibition  
 with)  
 IT Nucleotides, polymers  
 RL: BIOL (Biological study)  
 (oligo-, phosphoramidate-linked, infection by pathogen inhibition  
 with)  
 IT Microorganism  
 (pathogenic, infection by, oligonucleotides for inhibition of)  
 IT Anthelmintics  
 (schistosomicides, oligonucleotides inhibiting replication or  
 reprodn. of Schistozoma)  
 IT 146416-16-2 150875-86-8 150875-87-9  
 RL: BIOL (Biological study)  
 (antimalarial)  
 IT 37228-74-3, Exonuclease  
 RL: BIOL (Biological study)  
 (antimalarial oligonucleotide resistant to degrdn. by)  
 IT 9031-61-2  
 RL: BIOL (Biological study)  
 (dihydrofolate reductase-, gene for, of Plasmodium  
**falciparum**, oligonucleotide inhibiting)  
 IT 54-05-7, Chloroquine 56-54-2, Quinidine 58-14-0, Pyrimethamine  
 130-95-0, Quinine 53230-10-7, Mefloquine  
 RL: BIOL (Biological study)  
 (malarial pathogen resistant to, oligonucleotide inhibiting)  
 IT 146416-19-5  
 RL: BIOL (Biological study)  
 (oligonucleotide complementary to first nucleotides of gene P195,  
 for inhibition of Plasmodium **falciparum**)  
 IT 150875-88-0  
 RL: BIOL (Biological study)  
 (oligonucleotide complementary to first nucleotides of gene P195,  
 Plasmodium **falciparum** inhibition with)  
 IT 146416-15-1 146416-15-1D, phosphoroamidate and phosphorodithioate  
 and phosphorothioate derivs.  
 RL: BIOL (Biological study)  
 (oligonucleotide complementary to first nucleotides of gene for  
 dihydrofolate reductase-thymidylate synthase, for inhibition of  
 Plasmodium **falciparum**)  
 IT 150875-91-5 150875-92-6  
 RL: BIOL (Biological study)  
 (oligonucleotide complementary to first nucleotides of gene for  
 dihydrofolate reductase-thymidylate synthase, Plasmodium  
**falciparum** inhibition with)  
 IT 146416-14-0 146416-14-0D, phosphoroamidate and phosphorodithioate  
 and phosphorothioate derivs.  
 RL: BIOL (Biological study)  
 (oligonucleotide complementary to nucleotides of gene P195, for  
 inhibition of Plasmodium **falciparum**)  
 IT 150875-89-1 150875-90-4  
 RL: BIOL (Biological study)  
 (oligonucleotide complementary to nucleotides of gene P195,  
 Plasmodium **falciparum** inhibition with)  
 IT 146416-19-5D, phosphoroamidate and phosphorodithioate and  
 phosphorothioate derivs.  
 RL: BIOL (Biological study)  
 (oligonucleotides complementary to first nucleotides of gene  
 P195, for inhibition of Plasmodium **falciparum**)  
 IT 9002-03-3  
 RL: BIOL (Biological study)  
 (thymidylate synthase-, gene for, of Plasmodium

**falciparum**, oligonucleotide inhibiting)

L94 ANSWER 46 OF 108 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.  
 AN 94030068 EMBASE  
 TI Reduced microbicidal and anti-tumour activities of human monocytes  
 after ingestion of **Plasmodium falciparum**  
 -infected red blood cells.  
 AU Fiori P.L.; Rappelli P.; Mirkarimi S.N.; Ginsburg H.; Cappuccinelli  
 P.; Turrini F.  
 CS Department of Biological Chemistry, Institute of Life Sciences,  
 Hebrew University, Jerusalem 91904, Israel  
 SO PARASITE IMMUNOL., (1993) 15/12 (647-655).  
 ISSN: 0141-9838 CODEN: PAIMD8  
 CY United Kingdom  
 DT Journal  
 FS 004 Microbiology  
 016 Cancer  
 025 Hematology  
 026 Immunology, Serology and Transplantation  
 LA English  
 SL English  
 AB Oxidatively stressed red blood cells (RBC) and **Plasmodium falciparum**- infected RBC (PRBC) are avidly phagocytosed by human peripheral monocytes. Following the ingestion of PRBC the monocytes' ability to phagocytose PRBC and to generate aggressive oxidative compounds is severely impaired. In the present work the microbicidal and anti-tumour capacities of monocytes fed with diamide-treated RBC and PRBC harbouring mature (trophozoite) **parasites** have been investigated. The capacity of the latter, but not of the former, to phagocytose **Escherichia coli** and **Staphylococcus aureus** and to kill them, as well as ingested **Candida albicans** cells intracellularly, was found to be markedly impaired. Monocytes that have ingested PRBC had a significantly reduced cytostatic and cytolytic activities against a lymphoblastic tumour cell line. Monocytes fed with oxidatively stressed RBC had normal or sometimes even greater anti-tumour activities. Monocytes that have ingested PRBC showed a reduced capability to produce superoxide following stimulation with phorbol ester. Such impairment in monocyte functions may explain the reduced antibacterial and anti-tumour activities of monocytes in malaria patients, and could be consequential to their ability to resist bacterial infections and to provide means for the control of tumour development in those patients.  
 CT EMTAGS: **invertebrate** (0723); **protozoon** (0751);  
**reticuloendothelial system** (0924); **blood and hemopoietic system** (0927); **infection** (0310); **etiology** (0135); **plant** (0699); **fungus** (0763); **bacterium** (0762); **mammal** (0738); **human** (0888); **nonhuman** (0777); **controlled study** (0197); **human tissue, cells or cell components** (0111); **priority journal** (0007); **article** (0060)  
 Medical Descriptors:  
**\*plasmodium falciparum**  
**\*monocyte**  
**\*bactericidal activity**  
**\*antineoplastic activity**  
**\*malaria: ET, etiology**  
**erythrocyte**  
**candida albicans**  
**phagocytosis**  
**host parasite interaction**  
**escherichia coli**  
**staphylococcus aureus**  
**human**

Toxoplasma  
Trichinella spiralis  
Trichomonas  
(drug-resistant, treatment of, with antisense oligonucleotides)  
IT Leishmania  
Malaria  
Parasite  
Plasmodium **falciparum**  
Schistosoma  
Trypanosoma  
Virus  
(infection by, oligonucleotides for inhibition of)  
IT Gene, microbial  
RL: BIOL (Biological study)  
(oligonucleotide hybridizing with vital, of pathogen, for  
inhibiting infection by pathogen)  
IT Bacteria  
(oligonucleotides for inhibition of)  
IT Anti-infective agents  
(oligonucleotides for inhibition of pathogen for)  
IT Bactericides, Disinfectants, and Antiseptics  
(oligonucleotides inhibiting replication or reprodn. of bacteria)  
IT Antimalarials  
(oligonucleotides inhibiting replication or reprodn. of malaria  
pathogen)  
IT Parasiticides  
(oligonucleotides inhibiting replication or reprodn. of parasite)  
IT Virucides and Virustats  
(oligonucleotides inhibiting replication or reprodn. of virus)  
IT Trypanosomicides  
(oligonucleotides inhibiting replication or reprodn. of  
Trypanosoma)  
IT Pharmaceuticals  
(pathogens resistant to, treatment of, with antisense  
oligonucleotides)  
IT Intestine, disease  
(amebiasis, drug-resistant, treatment of, with antisense  
oligonucleotides)  
IT Mycosis  
(blasto-, drug-resistant, treatment of, with antisense  
oligonucleotides)  
IT Therapeutics  
(chemo-, pathogen resistant to, oligonucleotide inhibiting)  
IT Mycosis  
(coccidioido-, drug-resistant, treatment of, with antisense  
oligonucleotides)  
IT Skin, disease  
(dermatophytosis, drug-resistant, treatment of, with antisense  
oligonucleotides)  
IT Therapeutics  
(geno-, infection by pathogen inhibition by, oligonucleotides  
for)  
IT Intestine, disease  
(giardiasis, drug-resistant, treatment of, with antisense  
oligonucleotides)  
IT Venereal disease  
(lymphogranuloma venereum, drug-resistant, infection with,  
treatment of, with antisense oligonucleotides)  
IT Nucleotides, polymers  
RL: BIOL (Biological study)  
(oligo-, infection by pathogen inhibition with)  
IT Nucleotides, polymers  
RL: BIOL (Biological study)  
(oligo-, deoxyribo-, thiophosphate-linked, infection by pathogen

**parasite** merozoite  
 RL: PRP (Properties)  
 (amino acid sequence of, prophylaxis and **treatment** of  
**HIV** infection with)

L94 ANSWER 45 OF 108 HCAPLUS COPYRIGHT 1998 ACS  
 AN 1993:617377 HCAPLUS  
 DN 119:217377  
 TI Antiparasitic oligonucleotides active against drug-resistant malaria  
 IN Rapaport, Eliezer; Zamecnik, Paul C.  
 PA Worcester Foundation for Experimental Biology, USA  
 SO PCT Int. Appl., 47 pp.  
 CODEN: PIXXD2  
 PI WO 9313740 A2 930722  
 DS W: CA, JP, KR, US  
 RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
 AI WO 92-US11202 921231  
 PRAI US 91-815393 911231  
 DT Patent  
 LA English  
 IC ICM A61K031-70  
 ICS C12N015-11  
 CC 1-5 (Pharmacology)  
 Section cross-reference(s): 3  
 AB Active infection by a pathogen, esp. *Plasmodium falciparum*, is inhibited by administering an oligonucleotide that inhibits the replication or reprodn. of the pathogen. Materials and methods are provided for antisense oligonucleotide therapy against drug-resistant or -sensitive pathogens. Phosphorothioate 5'-GTC GCA GAC TTG TTC CAT CAT-3' (I, complementary to the 1st 21 nucleotides of the open reading frame of *P. falciparum* dihydrofolate reductase-thymidylate synthase gene starting with the start codon), with the last 3' phosphodiester bond being a phosphorbutylamide for inhibition of exonuclease activity, was equally effective in inhibiting the growth and invasion of chloroquine-resistant and -sensitive strains of *P. falciparum*. I had higher antimalarial activity than an oligonucleotide of identical sequence but lacking the Bu phosphoramidate group at the 3' end.  
 ST antisense oligonucleotide therapy pathogen; drug resistant malaria  
 antisense oligonucleotide therapy; *Plasmodium* gene inhibition  
 oligonucleotide  
 IT *Trypanosoma cruzi*  
 (Chagas' disease from, drug-resistant, treatment of, with  
 antisense oligonucleotides)  
 IT Gene, microbial  
 RL: BIOL (Biological study)  
 (P195, of *Plasmodium falciparum*, antimalarial  
 oligonucleotides hybridizing with)  
 IT *Candida*  
*Cestode*  
*Chlamydia trachomatis*  
*Cryptococcus* (fungus)  
***Histoplasma capsulatum***  
*Nematode*  
*Pneumocystis carinii*  
 (drug-resistant, infection with, **treatment** of, with  
 antisense oligonucleotides)  
 IT *Ascaris*  
*Aspergillus*  
*Cryptosporidium*  
*Filaria*  
*Rickettsia prowazekii*  
*Rocky Mountain spotted fever*  
*Sporotrichum*

cerebrospinal fluid with cell cycle phase-specific therapeutic dispersion allowing persistence in cerebro-ventricular space)

IT Nervous system  
(disease, neurol. disorder treatment using administration to cerebrospinal fluid with therapeutic dispersion allowing persistence in cerebro-ventricular space)

IT Virus, animal  
(**human** T-cell leukemia type I, neurol. virus infection treatment using administration to cerebrospinal fluid with therapeutic dispersion allowing persistence in cerebro-ventricular space)

IT Virus, animal  
(**human** T-cell leukemia type II, neurol. virus infection treatment using administration to cerebrospinal fluid with therapeutic dispersion allowing persistence in cerebro-ventricular space)

IT Virus, animal  
(**human immunodeficiency** 1, neurol. virus infection **treatment** using administration to cerebrospinal fluid with therapeutic dispersion allowing persistence in cerebro-ventricular space)

IT Virus, animal  
(**human immunodeficiency** 2, neurol. virus infection **treatment** using administration to cerebrospinal fluid with therapeutic dispersion allowing persistence in cerebro-ventricular space)

IT Virus, animal  
(lenti-, neurol. virus infection treatment using administration to cerebrospinal fluid with therapeutic dispersion allowing persistence in cerebro-ventricular space)

IT Pharmaceutical dosage forms  
(liposomes, neurol. disorder treatment using administration to cerebrospinal fluid with therapeutic dispersion allowing persistence in cerebro-ventricular space)

IT Neoplasm inhibitors  
(metastasis, neurol. disorder treatment using administration to cerebrospinal fluid with therapeutic dispersion allowing persistence in cerebro-ventricular space)

IT Virus, animal  
(retro-, neurol. virus infection treatment using administration to cerebrospinal fluid with therapeutic dispersion allowing persistence in cerebro-ventricular space)

IT Virus, animal  
(slow, neurol. virus infection treatment using administration to cerebrospinal fluid with therapeutic dispersion allowing persistence in cerebro-ventricular space)

IT Neoplasm inhibitors  
(subarachnoid space, metastasis, neurol. disorder treatment using administration to cerebrospinal fluid with therapeutic dispersion allowing persistence in cerebro-ventricular space)

IT Meninges  
(subarachnoid space, neoplasm, metastasis, inhibitors, neurol. disorder treatment using administration to cerebrospinal fluid with therapeutic dispersion allowing persistence in cerebro-ventricular space)

IT 147-94-4, Cytarabine  
RL: ADV (Adverse effect, including toxicity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(neurol. disorder treatment using administration to cerebrospinal fluid with therapeutic dispersion allowing persistence in cerebro-ventricular space)

IT 50-99-7, Glucose, biological studies 57-50-1, Sucrose, biological studies 99-20-7, Trehalose 31112-62-6, Metrizamide 66108-95-0, Iohexol 92339-11-2, Iodixanol

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (neurol. disorder treatment using administration to cerebrospinal fluid with therapeutic dispersion allowing persistence in cerebro-ventricular space)

IT 50-02-2, Dexamethasone  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (oral dexamethasone redn. of toxicity of ara-C dispersion intrathecal and intraventricular treatment in cancer patients with neoplastic meningitis)

L94 ANSWER 39 OF 108 HCAPLUS COPYRIGHT 1998 ACS  
 AN 1994:672192 HCAPLUS  
 DN 121:272192

TI Pharmaceutical tryptophan-containing dipeptide compositions and use in treatment of a variety of diseases

IN Khavinson, Vladimir Khatskelevi; Morozov, Vyacheslav Grigorievich; Sery, Sergy Vladimirovich; Green, Lawrence; Sinackevich, Nicolay V.; Kozhemyakin, Andrei L.

PA Cytoven International N.V., USA

SO PCT Int. Appl., 117 pp.  
 CODEN: PIXXD2

PI WO 9420063 A2 940915

DS W: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, UA, US, UZ, VN  
 RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG

AI WO 94-US2354 940304

PRAI US 93-26341 930304

DT Patent

LA English

IC ICM A61K

CC 1-12 (Pharmacology)  
 Section cross-reference(s): 8, 14, 15, 63

AB The present invention provides compns. and methods for treatment of a variety of disease states. The methods generally comprise administering to a host a therapeutically effective amt. of a dipeptide having the formula X-Trp or a pharmaceutically acceptable salt thereof, wherein X is glutamine, glutamate, leucine, or isoleucine. The present invention is useful for **treatment** of infections, hyperimmune states, **immunodeficiencies**, and the like. Bronchial asthma patients, patients infected with Shigella dysentery, pregnant women, etc. were treated with Ile-Trp. People exposed to radiation at Chernobyl were treated with Glu-Trp.

ST tryptophan dipeptide pharmaceutical; infection treatment tryptophan dipeptide; immune system tryptophan dipeptide; disease treatment tryptophan dipeptide; radiation tryptophan dipeptide

IT Dysentery  
 (Shigella; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Shigella  
 (dysentery; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Cosmetics  
 (fewer allergy reactions to; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Anesthetics

Anti-infective agents

Neoplasm inhibitors  
 (in tryptophan-contg. dipeptide compns.; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Interferons  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(in tryptophan-contg. dipeptide compns.; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Bacteria  
 Candida albicans  
 Fungi  
 Histoplasma capsulatum  
 Leishmania  
 Mycobacterium leprae  
**Mycobacterium tuberculosis**  
 Mycobacterium  
**Parasite**  
 Plasmodium (malarial genus)  
 Virus, animal  
 (infection; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT **Staphylococcus aureus**  
 (peritonitis from methicillin-resistant; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Acne  
 Acquired immune deficiency syndrome  
 Allergy inhibitors  
 Asthma  
 Bactericides, Disinfectants, and Antiseptics  
 Burn  
 Common cold  
 Dentifrices  
 Eye, disease  
 Fungicides and Fungistats  
 Immunity  
 Immunodeficiency  
 Immunostimulants  
 Leprosy  
**Parasiticides**  
 Parturition  
 Pharmaceutical dosage forms  
 Pregnancy  
 Psoriasis  
 Radiation sickness  
 Skin, disease  
 Toxemia of pregnancy  
 Tuberculosis  
 Virucides and Virustats  
 Wound healing promoters  
 (pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Blood transfusion  
 (prevention of alloblood rejection after; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Transplant and Transplantation  
 (prevention of rejection of; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Antibiotics  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (pyrazinamide, in tryptophan-contg. dipeptide compns.; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Malaria  
 (relapsing forms of; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT **Staphylococcus**  
 (skin disease from antibiotic-resistant; pharmaceutical

tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Aspergillus  
(aspergillosis from, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Mycosis  
(blasto-, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Candida  
(candidiasis from, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Inflammation  
(cellulitis, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Therapeutics  
(chemo-, complications and side effects from; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Skin, disease  
(chromomycosis, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Osteomyelitis  
(chronic, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Mycosis  
(coccidioido-, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Temperature effects, biological  
(cold, frostbite, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Intestine, disease  
(colon, infection, bacterial; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Cryptococcus neoformans  
(cryptococcosis from, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Virus, animal  
(dengue, infection; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Peptides, biological studies  
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(di-, tryptophan-contg.; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Gingiva  
(disease, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Respiratory tract  
(disease, acute, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Tooth  
(disease, caries, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Ear  
(disease, infection, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Lymphatic system  
(disease, inflammation, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Peritoneum  
(disease, peritonitis, from methicillin-resistant *Staphylococcus aureus*; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Prostate gland  
(disease, prostatitis, pharmaceutical tryptophan-contg. dipeptide

compns. and use in treatment of variety of diseases)

IT Sinus  
(disease, sinusitis, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Hair  
(follicle, disease, inflammation, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Bone, disease  
(fracture, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Skin, disease  
(furunculosis, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Transplant and Transplantation  
(graft-vs.-host reaction, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Virus, animal  
(hepatitis, infection; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Virus, animal  
(herpes, infection; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Virus, animal  
(**human** immunodeficiency, infection; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Bone, disease

Kidney, disease

Lung, disease

Stomach, disease  
(infection, bacterial; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Virus, animal  
(influenza, infection; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Lymphokines and Cytokines  
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(interleukins, in tryptophan-contg. dipeptide compns.; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Neoplasm inhibitors  
(leukemia, in tryptophan-contg. dipeptide compns.; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Mycosis  
(mucormycosis, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Mammary gland  
(neoplasm, radiotherapy-treated; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Blastomyces brasiliensis  
(paracoccidioidomycosis from, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Kidney, disease  
(pyelonephritis, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Skin, disease  
(pyoderma, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Intestine, disease  
(small, infection, bacterial; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Sporothrix schenckii

(sporotrichosis from, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Animal growth regulators  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (transforming growth factors, in tryptophan-contg. dipeptide compns.; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Skin  
 (transplant, prevention of rejection of; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Lymphokines and Cytokines  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (tumor necrosis factor, in tryptophan-contg. dipeptide compns.; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Immunization  
 (vaccination, augmentation of; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Virus, animal  
 (varicella-zoster, herpes zoster from, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT Acne  
 (vulgaris, pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT 98-96-4, Pyrazinamide  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (antibiotics, in tryptophan-contg. dipeptide compns.; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT 54-85-3, Isoniazid 57-92-1, Streptomycin, biological studies  
 69-53-4, Ampicillin 80-08-0 1397-89-3, Amphotericin B  
 2022-85-7, Flucytosine 2030-63-9, Clofazimine 13292-46-1,  
 Rifampin 62683-29-8D, Colony-stimulating factor, compds.  
 65277-42-1, Ketoconazole 84625-61-6, Itraconazole 86386-73-4,  
 Fluconazole  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (in tryptophan-contg. dipeptide compns.; pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT 61-32-5, Methicillin  
 RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)  
 (peritonitis from *Staphylococcus aureus* resistant to;  
 pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT 13589-06-5, Ile-Trp 38101-59-6  
 RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

IT 5156-22-9, Leu-Trp 66851-83-0  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (pharmaceutical tryptophan-contg. dipeptide compns. and use in treatment of variety of diseases)

L94 ANSWER 40 OF 108 HCAPLUS COPYRIGHT 1998 ACS

AN 1994:144158 HCAPLUS

DN 120:144158

TI Nuclease-resistant oligonucleotides stabilized by internal hybridization and their use as therapeutic agents

IN Agrawal, Sudhir; Tang, Jin Yan

PA Hybridon, Inc., USA

SO PCT Int. Appl., 48 pp.  
 CODEN: PIXXD2  
 PI WO 9401550 A1 940120  
 DS W: AT, AU, BB, BG, BR, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP,  
     KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, RO, RU, SD, SE, SK, UA,  
     US, VN  
   RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR,  
     IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG  
 AI WO 93-US6326 930702  
 PRAI US 92-909069 920702  
 DT Patent  
 LA English  
 IC ICM C12N015-11  
 ICS C07H021-00; A61K031-70  
 CC 63-5 (Pharmaceuticals)  
 AB Improved antisense oligonucleotides that are resistant to nucleolytic degrdn. have two regions: a target hybridizing region complementary to a nucleic acid sequence that is from a pathogen, or a cellular gene; and a self-complementary region. Such oligonucleotides are called self-stabilized oligonucleotides. The nuclease resistance of these oligonucleotides may be increased by using unusual bondings such as phosphorothioates. An oligonucleotide complementary to the gag gene of HIV-1 was digested by snake venom phosphodiesterase with a half-life of 75 s; a self-stabilized oligonucleotide carrying a 3' tail of 10 self-complementary oligonucleotides had a half-life of 950 s under the same conditions. The nuclease resistance of these oligonucleotides was greatly increased in the phosphorothioate analog; the half-life of the analog of the first oligonucleotides was increased to 4 h and the analog of the second was essentially undegraded after 4 h. The self-stabilized oligonucleotide was an effective **inhibitor** of HIV-1 growth in H9 lymphocytes, as judged by inhibition of p24 synthesis, with an IC50 of 0.25-0.35 .mu.g/mL, compared to 2-2.8 .mu.g/mL for the non-stabilized oligonucleotide.  
 ST oligonucleotide self stabilized antisense therapeutic; HIV gag gene antisense oligonucleotide selfstabilized  
 IT *Fasciola hepatica*  
   *Leishmania*  
   *Plasmodium falciparum*  
   *Trypanosoma brucei*  
   *Virus, plant*  
     (infection by, treatment of, oligonucleotides for,  
     nucleolysis-resistant, stabilization by internal hybridization  
     of)  
 IT Ribozymes  
   RL: BIOL (Biological study)  
     (inhibition of gene expression with nucleolysis-resistant,  
     stabilization by internal hybridization of)  
 IT Gene, animal  
   RL: BIOL (Biological study)  
     (oligonucleotides for inhibition of expression of, stabilization  
     against nucleolysis by internal hybridization of)  
 IT Virus, animal  
   (oligonucleotides for treatment of infection by, stabilization  
   against nucleolysis by internal hybridization of)  
 IT Glycolipoproteins  
   RL: BIOL (Biological study)  
     (PrP (prion protein), gene for, inhibition of expression of,  
     oligonucleotides for, nucleolysis-resistant, stabilization by  
     internal hybridization of)  
 IT Glycoproteins, specific or class  
   RL: BIOL (Biological study)  
     (amyloid A4, pre-, gene for, inhibition of expression of,  
     KATHLEEN FULLER BT/LIBRARY 308-4290

oligonucleotides for, nucleolysis-resistant, stabilization by internal hybridization of)

IT Deoxyribonucleic acids  
RL: BIOL (Biological study)  
(complementary, antisense, oligonucleotides, therapeutic, self-stabilized, internal hybridization in, for stabilization against nucleolysis)

IT Virus, plant  
(cucumo-, infection by, treatment of, oligonucleotides for, nucleolysis-resistant, stabilization by internal hybridization of)

IT Virus, animal  
(foot-and-mouth disease, infection by, treatment of, oligonucleotides for, nucleolysis-resistant, stabilization by internal hybridization of)

IT Virus, animal  
(herpes simplex, infection by, treatment of, oligonucleotides for, nucleolysis-resistant, stabilization by internal hybridization of)

IT Virus, animal  
(human **immunodeficiency 1**, infection by, **treatment** of, oligonucleotides for, nucleolysis-resistant, stabilization by internal hybridization of)

IT Virus, animal  
(human papilloma, infection by, treatment of, oligonucleotides for, nucleolysis-resistant, stabilization by internal hybridization of)

IT Virus, animal  
(influenza, infection by, treatment of, oligonucleotides for, nucleolysis-resistant, stabilization by internal hybridization of)

IT Nucleotides, polymers  
RL: BIOL (Biological study)  
(oligo-, self-stabilized, internal hybridization in, for stabilization against nucleolysis)

IT Nucleotides, polymers  
RL: BIOL (Biological study)  
(oligo-, alkylphosphonate-linked, in self-stabilized oligonucleotides showing internal hybridization in, for stabilization against nucleolysis)

IT Nucleotides, polymers  
RL: BIOL (Biological study)  
(oligo-, alkylphosphonothioate-linked, in self-stabilized oligonucleotides showing internal hybridization in, for stabilization against nucleolysis)

IT Nucleotides, polymers  
RL: BIOL (Biological study)  
(oligo-, alkylphosphonothioate-linked, in self-stabilized oligonucleotides showing internal hybridization in, for stabilization against nucleolysis)

IT Nucleotides, polymers  
RL: BIOL (Biological study)  
(oligo-, dithiophosphate-linked, self-stabilized, internal hybridization in, for stabilization against nucleolysis)

IT Nucleotides, polymers  
RL: BIOL (Biological study)  
(oligo-, phosphoramidate-linked, in self-stabilized oligonucleotides showing internal hybridization in, for stabilization against nucleolysis)

IT Nucleotides, polymers  
RL: BIOL (Biological study)  
(oligo-, phosphotriester-linked, in self-stabilized oligonucleotides showing internal hybridization in, for stabilization against nucleolysis)

IT Nucleotides, polymers  
RL: BIOL (Biological study)  
(oligo-, thiophosphate-linked, self-stabilized, internal hybridization in, for stabilization against nucleolysis)

IT Microorganism

(pathogenic, oligonucleotides for treatment of infection by, stabilization against nucleolysis by internal hybridization of)

IT Gene  
 RL: BIOL (Biological study)  
 (transforming, inhibition of expression of, oligonucleotides for, nucleolysis-resistant, stabilization by internal hybridization of)

IT Virus, animal  
 (varicella-zoster, infection by, treatment of, oligonucleotides for, nucleolysis-resistant, stabilization by internal hybridization of)

IT Virus, animal  
 (yellow fever, infection by, treatment of, oligonucleotides for, nucleolysis-resistant, stabilization by internal hybridization of)

L94 ANSWER 41 OF 108 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.  
 AN 94142324 EMBASE  
 TI The resolution of acute malaria in a definitive model of B cell deficiency, the J(H)D mouse.  
 AU Van der Heyde H.C.; Huszar D.; Woodhouse C.; Manning D.D.; Weidanz W.P.  
 CS Med. Microbiology/Immunology Dept., University of Wisconsin, 1300 University Avenue, Madison, WI 53706, United States  
 SO J. IMMUNOL., (1994) 152/9 (4557-4562).  
 ISSN: 0022-1767 CODEN: JOIMA3  
 CY United States  
 DT Journal  
 FS 004 Microbiology  
 026 Immunology, Serology and Transplantation  
 LA English  
 SL English  
 AB Because the role of cell-mediated immunity (CMI) in the resolution of blood-stage malaria remains unclear, we examined the question of whether **mice** completely lacking Ab-mediated immunity (AMI) but possessing some CMI can resolve experimental malaria previously reported not to require AMI for resolution. Severe combined **immunodeficient mice** reconstituted with enriched immune T cells (<0.5% B220+ cells) suppressed acute *Plasmodium chabaudi adami* **parasitemia**, suggesting that T, but not B, cells are required to clear this form of malaria. In addition, J(H)D **mice**, which are a definitive model of B cell deficiency, were also shown to resolve *P. chabaudi adami*, *Plasmodium vinckei petteri* and *Plasmodium chaubadi chabaudi* malaria. These observations collectively establish that CMI alone can mediate the clearance of acute malaria caused by these subspecies of *Plasmodium*. Moreover, the protective cell-mediated immune response involved depends upon CD4+ T cells because J(H)D **mice treated** with anti-CD4 mAb do not resolve their infections. These results suggest that evaluation of immunization regimens to activate CD4+ T cell dependent cell mediated immunity against **Plasmodium falciparum** may be appropriate.  
 CT EMTAGS: infection (0310); etiology (0135); blood and hemopoietic system (0927); lymphatic system (0929); invertebrate (0723); protozoan (0751); therapy (0160); prevention (0165); nonhuman (0777); female (0042); mouse (0727); mammal (0738); animal model (0106); biological model (0502); controlled study (0197); animal tissue, cells or cell components (0105); priority journal (0007); article (0060)  
 Medical Descriptors:  
 \*malaria: ET, etiology  
 \*immune deficiency  
 humoral immunity  
 suppressor cell

plasmodium chabaudi  
 plasmodium vinckeii  
 cellular immunity  
 immunization  
 b lymphocyte  
 nonhuman  
 female  
 mouse  
 animal model  
 controlled study  
 animal tissue  
 animal cell  
 priority journal  
 article

L94 ANSWER 42 OF 108 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.  
 AN 94321839 EMBASE  
 TI Efficacy of Ro42-1611 (arteflène) in the **treatment** of  
 patients with mild malaria: A clinical trial in Cameroon.  
 AU Somo-Moyou R.; Mittelholzer M.-L.; Sorenson F.; Haller L.; Sturchler  
 D.  
 CS F. Hoffmann-La Roche Ltd, Dept POBT, CH-4002 Basel, Switzerland  
 SO TROP. MED. PARASITOL., (1994) 45/3 (288-291).  
 ISSN: 0177-2392 CODEN: TMPAEY  
 CY Germany, Federal Republic of  
 DT Journal  
 FS 004 Microbiology  
 007 Pediatrics and Pediatric Surgery  
 017 Public Health, Social Medicine and Epidemiology  
 037 Drug Literature Index  
 038 Adverse Reactions Titles  
 LA English  
 SL English  
 AB The novel antimalarial Ro 42-1611 (arteflène) was evaluated for  
 safety and efficacy in an open, non-comparative study of patients  
 with mild malaria in the south of Cameroon. Thirty male patients  
 aged 12 to 42 years, with an initial **Plasmodium**  
**falciparum** count of >5000 (mean: 21,406) **parasites**  
 /.mu.l and a body temperature of 37.7° to 39.8°.C, were  
 selected to receive a single dose of arteflène, corresponding to 25  
 .+- 2.5 mg /kg bodyweight. Efficacy was assessed at 6, 9, 12, 24,  
 36, 48 and 72 hours, and at seven days by: reduction in  
**parasitaemia** and time to **parasite** clearance;  
 resolution of fever and clinical cure (defined as the absence of  
 signs and symptoms of malaria). Adverse events were reported at  
 baseline and at each assessment point, and laboratory tests were  
 carried out at 2 and 7 days. The mean number of **parasites**  
 /.mu.l fell from 21,406 at baseline to 157 after 48 hours, at which  
 point 80% of patients were completely free of **parasites**.  
 Mean body temperature was reduced from 38.9°.C at baseline to  
 37.3°.C 12 hours after arteflène administration, and by this  
 time 80% of patients had a normal temperature. Clinical cure rates  
 were also high, with 70% of patients free of all signs and symptoms  
 after 24 hours. However, by day 7, 6/30 (20%) presented with smears  
 positive for **P. falciparum**. There were no  
 adverse events considered to be related to **treatment**. A  
 single dose of 25 mg/kg arteflène was found to be an effective and  
 well-tolerated **treatment** for mild **P.**  
**falciparum** malaria.  
 EMTAGS: **Africa** (0403); Africa south of the Sahara (4032);  
**infection** (0310); **therapy** (0160); **invertebrate** (0723);  
**protozoan** (0751); **mammal** (0738); **human** (0888); **male**  
 (0041); **clinical article** (0152); **adolescent** (0017); **school child**  
 (0016); **child** (0022); **adult** (0018); **oral drug administration** (0181);

human experiment (0104); conference paper (0061); adverse drug reaction (0198); iatrogenic disease (0300)

Medical Descriptors:

\*antimalarial activity

cameroon

malaria: DT, drug therapy

drug efficacy

drug safety

**plasmodium falciparum**

body temperature

time

**typhoid fever: DT, drug therapy**

**typhoid fever: SI, side effect**

human

male

clinical article

adolescent

school child

adult

oral drug administration

clinical trial

conference paper

Drug Descriptors:

\*antimalarial agent: AE, adverse drug reaction

\*antimalarial agent: CT, clinical trial

\*antimalarial agent: DT, drug therapy

chloramphenicol: DT, drug therapy

RN 56-75-7; 134-90-7; 2787-09-9

L94 ANSWER 43 OF 108 AIDSLINE

AN 1993:11704 AIDSLINE

DN ICA9-93334739

TI Cerebral toxoplasmosis and cerebral tuberculosis simultaneously in an HIV + patient with median CD4 + counts of 372 cells/mm3 - 21%.

AU Oliveira M P; Silva L C; Castineiras T M; Martins L; Piloto J H; Peixoto C A

CS Federal University of Rio de Janeiro.

SO Int Conf AIDS, (1993). Vol. 9, No. 1, pp. 337 (Abstract No. PO-B07-1209).

CY GERMANY: Germany, Federal Republic of

DT Abstract

FS ICA9

LA English

EM 199311

AB CASE REPORT AND RESULTS: Male, 37 y old, homosexual whose CT showed multiple ring-like contrast enhancement hypodense lesions involving deep brain nuclei (Thalamus, basal ganglia). He was given an empirical trial of 30 days with Pyrimethamine and Sulfadiazine with little improvement. Craniotomy was performed and brain biopsy was done. Two cystic lesions have been biopsied, cultured; histopathology and inoculation in guinea pig showed

**Mycobacterium tuberculosis** and the other one was

positive for Toxoplasma gondii. With Rifampin, Isoniazid and Pyrazinamide there was great improvement on the tomographic lesions.

CONCLUSION: CNS Tuberculosis appears to be uncommon but should be suspected specially in Brazil, after an empirical trial for Toxoplasmosis has failed to improve clinical status and focal lesions on CT.

CT Check Tags: Animal; Case Report; Human; Male

\*Acquired Immunodeficiency Syndrome: CO, complications

Adult

**Antitubercular Agents: TU, therapeutic use**

\*Basal Ganglia Diseases: CO, complications

Basal Ganglia Diseases: MI, microbiology

Accordingly, these fusion proteins may be used in **treatment** of **HIV-1** or **HIV-2** infection, or may be used as a form of vaccine (no data). Addnl., these chimeric proteins may be used prophylactically in eye drops or in contraceptives (no data). Fusion proteins specific for other viruses can be prep'd. by substituting an antibody Fab fragment or viral receptor for the CD4 antigen.

ST CD4 antigen malaria merozoite protein fusion; receptor virus RBC binding protein fusion; red blood cell binding protein fusion; **HIV** infection **treatment** prevention fusion protein

IT Proteins, specific or class  
RL: BIOL (Biological study)  
(EBA-175, fusion products with virus-binding protein of, prophylaxis and treatment of viral infections with)

IT Immunoglobulins  
RL: BIOL (Biological study)  
(Fab fragment of anti-viral, fusion products with malaria **parasite** merozoite red blood cell-binding protein, prophylaxis and treatment of viral infections with)

IT Proteins, specific or class  
RL: BIOL (Biological study)  
(GBPH (glycophorin binding protein homolog), fusion products with virus-binding protein of, prophylaxis and treatment of viral infections with)

IT Vaccines  
(fusion products of malaria **parasite** merozoite red blood cell-binding protein and CD4 antigen as, prevention of HIV infection with)

IT Blood transfusion  
(fusion products of malaria **parasite** merozoite red blood cell-binding protein and CD4 antigen for prophylaxis in)

IT Contraceptives  
(fusion products of malaria **parasite** merozoite red blood cell-binding protein and CD4 antigen for use in, prevention of HIV infection in relation to)

IT Protein sequences  
(of CD4 antigen-malaria **parasite** merozoite red blood cell-binding protein fusions)

IT Plasmodium berghei  
Plasmodium chabaudi  
Plasmodium cynomolgi  
Plasmodium gallinaceum  
Plasmodium yoelii yoelii  
(red blood cell-binding protein of, fusion products with viral receptor, prophylaxis and treatment of viral infections with)

IT Receptors  
RL: BIOL (Biological study)  
(viral, fusion products with malaria **parasite** merozoite red blood cell-binding protein, prophylaxis and treatment of viral infections with)

IT Hepatitis  
(B, prophylaxis and treatment of, fusion products of viral receptor and malaria **parasite** merozoite red blood cell-binding protein for)

IT Hepatitis  
(C, prophylaxis and treatment of, fusion products of viral receptor and malaria **parasite** merozoite red blood cell-binding protein for)

IT Antigens  
RL: BIOL (Biological study)  
(CD4, fusion products with malaria **parasite** merozoite red blood cell-binding protein of, prophylaxis and treatment of viral infections with)

IT Hepatitis

(D, prophylaxis and treatment of, fusion products of viral receptor and malaria **parasite** merozoite red blood cell-binding protein for)

IT Receptors  
 RL: BIOL (Biological study)  
 (Duffy blood-group substances, of **Plasmodium vivax**, fusion products with virus-binding protein of, prophylaxis and treatment of viral infections with)

IT Blood-group substances  
 RL: BIOL (Biological study)  
 (Duffy, receptors, of **Plasmodium vivax**, fusion products with virus-binding protein of, prophylaxis and treatment of viral infections with)

IT Proteins, specific or class  
 RL: BIOL (Biological study)  
 (GBP-130 (glycophorin-binding protein, 130,000-mol.-wt.), fusion products with virus-binding protein of, prophylaxis and treatment of viral infections with)

IT Proteins, specific or class  
 RL: BIOL (Biological study)  
 (P200, fusion products with virus-binding protein of, prophylaxis and treatment of viral infections with)

IT Antigens  
 RL: BIOL (Biological study)  
 (PMMSA (precursor to major merozoite surface antigen), fusion products with virus-binding protein of, prophylaxis and treatment of viral infections with)

IT Gene  
 RL: BIOL (Biological study)  
 (chimeric, for fusion products of malaria **parasite** merozoite red blood cell-binding protein and viral receptor)

IT Virus, animal  
 (hepatitis B, receptor for, fusion products with malaria **parasite** merozoite red blood cell-binding protein, prophylaxis and treatment of viral infections with)

IT Virus, animal  
 (hepatitis C, receptor for, fusion products with malaria **parasite** merozoite red blood cell-binding protein, prophylaxis and treatment of viral infections with)

IT Virus, animal  
 (hepatitis D, receptor for, fusion products with malaria **parasite** merozoite red blood cell-binding protein, prophylaxis and treatment of viral infections with)

IT Virus, animal  
 (**human immunodeficiency** 1, infection with, treatment of, fusion products of malaria **parasite** merozoite red blood cell-binding protein and CD4 antigen for)

IT Virus, animal  
 (**human immunodeficiency** 2, infection with, treatment of, fusion products of malaria **parasite** merozoite red blood cell-binding protein and CD4 antigen for)

IT Microorganism development  
 (merozoite, malaria **parasite**, blood cell-binding protein of, fusion products with virus-binding protein of, prophylaxis and treatment of viral infections with)

IT Pharmaceutical dosage forms  
 (solns., ophthalmic, fusion products of malaria **parasite** merozoite red blood cell-binding protein and CD4 antigen for, prevention of HIV infection with)

IT 114844-83-6D, Antigen PMMSA (**Plasmodium falciparum** clone g1.1/g126/pEPG3.3 protein moiety reduced), fusion products with CD4 antigen 151616-85-2 151616-86-3 151616-87-4 151616-88-5D, conjugates with CD4 antigen 151616-89-6 151616-90-9 151616-91-0D, fusion products with P200 or PMMSA of malaria

SO of Virginia School of Medicine, Charlottesville, VA, United States  
 ANN. INTERN. MED., (1987) 106/5 (714-718).  
 CY CODEN: AIMEAS  
 United States  
 FS 004 Microbiology  
 006 Internal Medicine  
 015 Chest Diseases, Thoracic Surgery and Tuberculosis  
 030 Pharmacology

LA English  
 AB The widespread emergence of chloroquine-resistant **Plasmodium falciparum** led to the formulation of an effective, fixed combination of two antimalarial agents, pyrimethamine and the long-acting sulfonamide sulfadoxine, for prophylaxis and **treatment**. These drugs act at sequential steps to inhibit the formation of tetrahydrofolate in the **parasite**. Recently, their use for malaria prophylaxis has been associated with severe, at times fatal, cutaneous reactions including erythema multiforme, Stevens-Johnson syndrome, and toxic epidermal necrolysis. These reactions have necessitated a major reassessment of the indications for pyrimethamine-sulfadoxine use and increased the search for pharmacologic, immunologic and behavioral approaches to the prophylaxis and **treatment** of infection with **P. falciparum**. Pyrimethamine-sulfadoxine may be effective in preventing recurrent pneumonia caused by *Pneumocystis carinii* in patients with the acquired **immunodeficiency** syndrome, but life-threatening cutaneous reactions have also been reported in this setting.

CC 037.11.01.03.00. Drug Literature Index/ANTIIINFECTIVE  
 AGENTS/Chemotherapeutic agents and antibiotics/Sulfonamides  
 037.11.04.00.00. //Antiprotozoal drugs  
 038.29.00.00.00. Adverse Reactions Titles/ANTIPROTOZOAL DRUGS  
 CT EMTAGS: **priority journal** (0007); skin, hair, nails and sweat glands (0980); intoxication (0302); blood and hemopoietic system (0927); immunological factors (0136); therapy (0160); adverse drug reaction (0198); oral drug administration (0181); review (0001); **human** (0888); infection (0310); protozoon (0751); bacterium (0762)

Medical Descriptors:

- \*fansidar
- \*plasmodium falciparum**
- \*pneumocystis carinii
- \*pyrimethamine
- \*sulfadoxine
- \*erythema multiforme
- \*stevens johnson syndrome
- \*toxic epidermal necrolysis
- \*megaloblastic anemia
- \*nephrotoxicity
- \*liver toxicity
- \*drug hypersensitivity
- chloroquine
- \*drug mixture
- \*pharmacotherapy
- \*drug efficacy
- \*adverse drug reaction
- \*skin toxicity
- \*acquired immune deficiency syndrome**

- \*prophylaxis
- drug resistance

Drug Descriptors:

- quinine
- amodiaquine
- proguanil
- mefloquine

tetracycline derivative  
 diethyltoluamide  
 primaquine  
 CN Fansidar; Camoquin; Flavoquine; Paludrine  
 CO Hoffmann la roche (United States); Ici (United Kingdom); Parke davis  
 (United Kingdom); Roussel (France)

L94 ANSWER 84 OF 108 HCAPLUS COPYRIGHT 1998 ACS DUPLICATE 10  
 AN 1988:147004 HCAPLUS  
 DN 108:147004  
 TI Effect of benzalkonium chloride on HIV and related infections and on  
 other infectious agents  
 AU Wainberg, M. A.; Bleau, G.  
 CS Lady Davis Inst. Med. Res., Sir Mortimer B. Davis - Jewis Gen.  
 Hosp., Montreal, PQ, Can.  
 SO Arch. AIDS Res. (1987), 1(1), 57-68  
 CODEN: AARSE9  
 DT Journal  
 LA English  
 CC 10-5 (Microbial Biochemistry)  
 Section cross-reference(s): 1  
 AB Benzalkonium chloride can be used to greatly reduce HIV-1 (human immunodeficiency virus) reverse transcriptase activity upon exposure to virus. Such inactivation takes place in a concn.-dependent manner. Furthermore, this drug is able at concns. of 0.05% and higher, in aq. soln., to completely destroy HIV-1 infectivity, when tested under these conditions. Exposure of free virus to the interior of a benzalkonium-contg. condom appeared to greatly reduce potential infectivity. Similar results were obtained when HIV-1-infected H-9 cells were exposed to benzalkonium within the interior of a condom, prior to exposure to target cells. Neither of two latex rubber condoms tested were permeable to HIV-1 or the HIV-1-infected cells. Following puncture of the condom wall by a 18-gauge needle and the recovery and testing of the contents of the condom from the outside, it was found that no free HIV-1 survived exposure to the interior of a benzalkonium-contg. device, whereas some HIV-1 did survive exposure to the interior of a non-drug-contg. condom. However, some residual infectivity could be detected on the part of HIV-1-infected H-9 cells which had been exposed to the interior of a benzalkonium-contg. condom. Benzalkonium chloride, at moderate concns., was viricidal for herpes simplex virus type 2 and cytomegalovirus. However, this drug had no effect on reactivity of hepatitis B surface antigen with specific antibody. A transient bacteriostatic effect was obsd. with regard to exposure of benzalkonium chloride to **Mycobacterium tuberculosis**.  
 ST benzalkonium chloride **inhibition human immunodeficiency virus**; virucide benzalkonium chloride; AIDS virus benzalkonium chloride  
 IT Virucides and Virustats  
 (benzalkonium chloride)  
 IT **Mycobacterium tuberculosis**  
 (inhibition of, by benzalkonium chloride)  
 IT Quaternary ammonium compounds, biological studies  
 RL: BIOL (Biological study)  
 (alkylbenzyldimethyl, chlorides, **human immunodeficiency virus inhibition by**)  
 IT Virus, animal  
 (cytomegalo-, inhibition of, by benzalkonium chloride)  
 IT Virus, animal  
 (herpes simplex 2, inhibition of, by benzalkonium chloride)  
 IT Virus, animal  
 (**human immunodeficiency, inhibition of, by benzalkonium chloride**)

IT 9068-38-6, Reverse transcriptase  
 RL: PROC (Process)  
 (of **human immunodeficiency** virus,  
 benzalkonium chloride **inhibition** of)

L94 ANSWER 85 OF 108 HCAPLUS COPYRIGHT 1998 ACS  
 AN 1987:512471 HCAPLUS  
 DN 107:112471  
 TI Activity of ciprofloxacin and other fluorinated quinolones against mycobacteria  
 AU Young, Lowell S.; Berlin, O. George W.; Inderlied, Clark B.  
 CS Kuzell Inst. Arthritis Infect. Dis., San Francisco, CA, 94115, USA  
 SO Am. J. Med. (1987), 82(4A), 23-6  
 CODEN: AJMEAZ; ISSN: 0002-9343  
 DT Journal  
 LA English  
 CC 10-5 (Microbial Biochemistry)  
 AB The new fluorinated quinolones display interesting but variable activity against mycobacteria. Almost all compds. tested (ciprofloxacin, ofloxacin, enoxacin, norfloxacin, difloxacin, I-934, A-56620, and megalone) inhibit **Mycobacterium tuberculosis** at achievable serum concns., with ciprofloxacin and ofloxacin most active by wt. (minimal inhibitory concn. at which growth of 90% of strains is inhibited is .ltoreq.1 .mu.g/mL). The growth of *M. kansasii*, *M. xenopi*, and *M. fortuitum* is also well inhibited by these agents in the same range of concns. Activity against the *M. avium* complex is method-dependent, with growth of perhaps one-third of the strains isolated from patients with the acquired **immune deficiency** syndrome inhibited by ciprofloxacin. Detn. of individual drug efficacy data in exptl. mycobacterial infections is not a practical goal. However, combination therapy studies are in progress using murine models of both ***M. tuberculosis*** and ***M. avium*** challenges. Ofloxacin has been used with some success in **human** patients with pulmonary tuberculosis. Oral administration may be an important advantage, and, when used in combination with other active agents, the new quinolones may have a useful role in treating mycobacterial infections.  
 ST mycobacteria fluorinated quinolone ciprofloxacin; tuberculostatic ciprofloxacin ofloxacin enoxacin norfloxacin megalone  
 IT **Mycobacterium avium**  
**Mycobacterium fortuitum**  
**Mycobacterium kansasii**  
**Mycobacterium tuberculosis**  
**Mycobacterium xenopi**  
 (fluorinated quinolone sensitivity of)  
 IT Tuberculostatics  
 (fluorinated quinolones)  
 IT 70458-96-7, Norfloxacin 74011-58-8, Enoxacin 82419-36-1,  
 Ofloxacin 85721-33-1, Ciprofloxacin 91188-00-0, CI-934  
 98105-99-8, A-56620 98106-17-3, Difloxacin 110158-59-3  
 RL: BAC (Biological activity or effector, except adverse); BIOL  
 (Biological study)  
 (Mycobacterium sensitivity to)

L94 ANSWER 86 OF 108 HCAPLUS COPYRIGHT 1998 ACS  
 AN 1986:502597 HCAPLUS  
 DN 105:102597  
 TI Silver sulfonamide-complexes of diamines as antimicrobial agents  
 IN Scovill, John P.; Filippen-Anderson, Judith L.; Gilardi, Richard;  
 Miller, Robert E.; Milhous, Wilber K.  
 PA USA  
 SO U. S. Pat. Appl., 36 pp. Avail NTIS Order No. PAT-APPL-6-771 981.  
 CODEN: XAXXAV

PI US 771981 A0 860328  
 AI US 85-771981 850903  
 DT Patent  
 LA English  
 CC 63-6 (Pharmaceuticals)  
 AB Antimicrobial (esp. bacteria and protozoa) agents comprise Ag-sulfonamide complexes of aliph. or arom. diamines having C1-3 in the moiety bridging the 2 amino groups. Thus, the Ag metachloridine complex with 1,2-diaminoethane was prep'd. by mixing a water soln. contg. 2.84 g metachloridine and 5 mL 1,2-diaminoethane with a soln. contg. 1.7 g AgNO<sub>3</sub> and 3 mL 1,2-diaminoethane and allowing to stand for 3 h. The yield was 75% and the complex melted at 168-169.degree..  
 ST antimicrobial silver sulfonamide diamine complex; protozoacide silver sulfonamide diamine complex; bactericide silver sulfonamide diamine complex  
 IT **Escherichia coli**  
     Klebsiella pneumoniae  
     Proteus mirabilis  
     Pseudomonas aeruginosa  
     Shigella dysenteriae  
     Staphylococcus aureus  
     Streptococcus faecalis  
         (inhibition of, with silver-metachloridine-aminoethylpyridine complex)  
 IT **Plasmodium falciparum**  
     Trypanosoma rhodesiense  
         (inhibition of, with silver-sulfonamide-diamine complexes)  
 IT Antimalarials  
     Bactericides, Disinfectants, and Antiseptics  
     Protozoacides  
     Trypanosomicides  
         (silver-sulfonamide-diamine complexes)  
 IT 103937-71-9P 103937-72-0P 103937-73-1P 103937-74-2P  
     RL: PREP (Preparation)  
         (prepn. of, as antimicrobial agent)  
 IT 22199-08-2  
     RL: RCT (Reactant)  
         (reaction of, with aminomethylpyridine)  
 IT 563-63-3  
     RL: RCT (Reactant)  
         (reaction of, with metachloridine and aminomethylpyridine)  
 IT 7761-88-8, reactions  
     RL: RCT (Reactant)  
         (reaction of, with metachloridine and diamines)  
 IT 3731-51-9  
     RL: RCT (Reactant)  
         (reaction of, with silver acetate and metachloridine)  
 IT 565-36-6  
     RL: RCT (Reactant)  
         (reaction of, with silver compds. and diamines)  
 IT 107-15-3, reactions 109-76-2  
     RL: RCT (Reactant)  
         (reaction of, with silver nitrate and metachloridine)  
  
 L94 ANSWER 87 OF 108 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 86-225208 [34] WPIDS  
 CR 85-263120 [42]  
 DNC C86-097206  
 TI Compsn. of microbially produced recombinant IL-2 - used for treatment of immuno modulatory indications.  
 DC B04 C03  
 IN FERNANDES, P M; TAFORO, T A  
 PA (CETU) CETUS CORP

CYC 1  
 PI US 4604377 A 860805 (8634)\* 8 pp  
 ADT US 4604377 A US 85-715152 850321  
 PRAI US 84-594350 840328; US 85-715152 850321  
 IC A61K037-02; A61K039-39; A61K045-02; C07K013-00  
 AB US 4604377 A UPAB: 941122  
 Recombinant IL-2 compsn. (I) comprises a sterile lyophilised mixt. of (i) a selectively oxidised microbially produced recombinant IL-2, which is free of non-IL-2 protein and is at least 95% pure recombinant IL-2, and contains less than 5 ng endotoxin per 100,000 units of IL-2 activity; (ii) a water soluble carrier which does not affect the stability of (i); and (iii) a surface active agent to ensure the water solubility of (i).

For therapy (I) is dissolved in an aq. parenteral injection, the soln. contg. 0.01-2 mg(i), (also claimed).

USE - (I) is useful for **treatment** of **immunodeficiency** states, acquired, inborn or induced by chemotherapy, immunotheapy or irradiation, enhancement of cell-mediated immune responses in the therapy of viral, **parasitic**, bacterial, malignant, fungal, protozoal or mycobacterial or other infectious diseases; induction of enhanced immunologic response of cells ex vivo in the treatment of infectious, malignant, rhumatic or autoimmune diseases; treatment of rhumatism of other inflammatory arthidites; treatment of diseases of abnormal immune response by multiple sclerosis, systemic lupus erythematosus, glomerulonephritis or hepatitis; regulation of haematopoietic tumours or pre-malignant or aplastic abnormalities of haematopoietic tissue; as an adjuvant in induction of cell-mediated or humoral response to vaccines or antigens; as a mediator or modified of CNS function; for treatment of malignant or pre-malignant diseases in combination with other therapies; for treatment of **m. tuberculosis** in combination with drug therapy; and for prophylaxis against infectious diseases.

Dwg.0/1

Dwg.0/1

FS CPI

FA AB

MC CPI: B04-C01; B10-A09A; B12-A01; B12-A02C; B12-A04; B12-A06; B12-B01; B12-B04; B12-C10; B12-D02A; B12-D03; B12-D07; B12-D09; B12-E02; B12-G02; B12-G03; B12-G07; B12-M09; C04-C01; C10-A09A; C12-A01; C12-A02C; C12-A04; C12-A06; C12-B01; C12-B04; C12-C10; C12-D02A; C12-D03; C12-D07; C12-D09; C12-E02; C12-G02; C12-G03; C12-G07; C12-M09

L94 ANSWER 88 OF 108 HCPLUS COPYRIGHT 1998 ACS

AN 1986:545665 HCPLUS

DN 105:145665

TI 5-(N-Arylnortropan-3-yl)- and 5-(N-arylpiperidin-4-yl)-2,4-diaminopyrimidines. Novel inhibitors of dihydrofolate reductase

AU Maag, Hans; Locher, Rita; Daly, John J.; Kompis, Ivan

CS F. Hoffmann-La Roche und Co., Ltd., Basel, CH-4002, Switz.

SO Helv. Chim. Acta (1986), 69(4), 887-97

CODEN: HCACAV; ISSN: 0018-019X

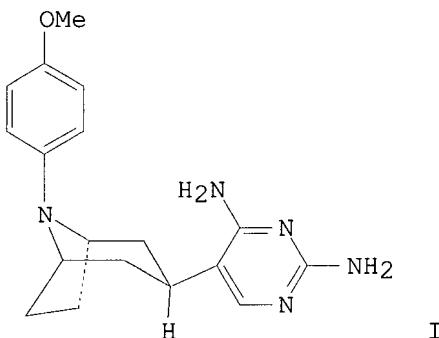
DT Journal

LA English

CC 1-3 (Pharmacology)

Section cross-reference(s): 7, 10, 28

GI



AB Based on a computer-assisted anal. of the 3-dimensional structure of the binary complex of *Escherichia coli* dihydrofolate reductase (DHFR) with methotrexate, 5-(N-arylnortropan-3-yl)- and 5-(N-arylpiperidin-4-yl)-2,4-diaminopyrimidines were designed as inhibitors of DHFR. Synthesis of the designed compds. have been carried out. The most potent compd. I [94635-30-0] inhibited *E. coli* DHFR with  $K_i = 0.49$  times. -9M. The activities within the series of compds. synthesized could be rationalized by mol.-modeling expts. Several compds. within the presented series exhibit antimalarial activities in vitro and in vivo.

ST aminopyrimidine prepn dihydrofolate reductase inhibitor structure; antimalarial aminopyrimidine

IT Antimalarials ((arylnortropanyl)- and (arylpiperidinyl)diaminopyrimidines)

IT Crystal structure (diamino[(methoxyphenyl)azabicyclooctyl]pyrimidines)

IT *Plasmodium falciparum* (diaminopyrimidines activity against)

IT *Escherichia coli* Lactobacillus casei Liver, composition (dihydrofolate reductase from, diaminopyrimidines inhibition of)

IT Molecular structure-biological activity relationship (tetrahydrofolate dehydrogenase-inhibiting, of (arylnortropanyl)- and (arylpiperidinyl)diaminopyrimidines)

IT 105-56-6 RL: RCT (Reactant) (Knoevenagel condensation of, with (dimethoxyphenyl)azabicyclooctanone)

IT 33205-16-2 RL: RCT (Reactant) (Knoevenagel condensation of, with Et cyanoacetate)

IT 10272-07-8 RL: RCT (Reactant) (Mannich reaction of, with oxoglutaric acid and dimethoxytetrahydrofuran)

IT 50-01-1 RL: BIOL (Biological study) (condensation of, with Et cyano(dimethoxyphenyl)azabicyclooctanee xoacetate)

IT 9002-03-3 RL: BIOL (Biological study) (inhibitors of, diaminopyrimidines as)

IT 56525-68-9P 104383-34-8P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and Dieckmann condensation and decarboxylation of)

IT 35193-97-6P 94634-89-6P 94635-24-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and Knoevenagel condensation with Et cyanoacetate)

IT 94634-90-9P 94635-25-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and catalytic hydrogenation of)

IT 94634-92-1P 94635-17-3P 94635-21-9P 94635-27-5P 104404-87-7P  
 104404-88-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and chlorination of)

IT 94634-91-0P 94635-26-4P 104404-85-5P 104404-86-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and condensation with guanidine HCl)

IT 94635-30-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and dehydrofoalte reductase inhibiting and antimalarial  
 activity of, structure in relation to)

IT 156-81-0DP, derivs. 94635-31-1P 94635-32-2P 94635-33-3P  
 104383-32-6P 104383-33-7P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and dihydrofolate reductase-inhibiting and antimalarial  
 activities of, structure in relation to)

IT 94634-88-5P 94635-23-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and hydrolysis of)

IT 94635-14-0P 94635-15-1P 94635-18-4P 94635-19-5P 94635-22-0P  
 94635-28-6P 104404-89-9P 104404-90-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and redn. of)

IT 104-94-9  
 RL: RCT (Reactant)  
 (reaction of, with Et acrylate)

IT 542-05-2  
 RL: RCT (Reactant)  
 (reaction of, with dimethoxyaniline and dimethoxytetrahydrofuran)

IT 140-88-5  
 RL: RCT (Reactant)  
 (reaction of, with methoxyaniline)

IT 696-59-3  
 RL: RCT (Reactant)  
 (reaction of, with oxoglutaric acid and dimethoxyaniline)

L94 ANSWER 89 OF 108 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.  
 AN 86110803 EMBASE  
 TI [Antiparasitic drug therapy adapted to particular endemic regions].  
 INDICATIONS PARTICULIERES DE CERTAINS TRAITEMENTS ANTIPARASITAIRES  
 EN ZONES D'ENDEMIE.  
 AU Gendrel D.; Nardou M.; Richard-Lenoble D.; Kombila M.  
 CS Centre Universitaire des Sciences de la Sante, BP 4009, Libreville,  
 Gabon  
 SO ARCH. FR. PEDIATR., (1985) 42/SUPPL. 2 (983-985).  
 CODEN: AFPEAM  
 CY France  
 LA French  
 SL English  
 AB In endemic regions, certain anti-parasitic therapies are  
 automatically prescribed when confronted with apparently benign  
 childhood disorders. The diagnostic differentiation between a simple  
 febrile seizure provoked by **Plasmodium falciparum**  
 is often impossible, requiring the initial use of intravenous  
 quinine. Helminth or Giardia infestations often aggravate the  
 chronic diarrhea of malnutrition, or are revealed with  
 corticosteroid therapy, necessitating the initiation of appropriate  
 treatment. In addition, the frequent association of

CC **typhoid** and schistosomiasis, requires therapy for both in order to prevent relapses.

CC 004.10.01.05.00.  
 004.10.05.01.00.  
 004.10.06.03.00.  
 004.10.08.01.00.  
 007.07.03.00.00.  
 007.12.06.00.00.  
 007.30.05.00.00.  
 007.36.01.01.00.  
 017.03.07.00.00.  
 017.03.08.00.00.  
 030.20.08.00.00.  
 030.20.08.04.00.  
 030.20.09.00.00.  
 037.11.03.00.00. Drug Literature Index/ANTIINFECTIVE AGENTS/Anthelmintics  
 037.11.04.00.00. //Antiprotozoal drugs

CT EMTAGS: **priority journal** (0007); therapy (0160); oral drug administration (0181); review (0001); epidemiology (0400); geographical aspects (0401); infection (0310); prevention (0165); **human** (0888); nematode (0754); microorganism (0724)

Medical Descriptors:  
 \*pharmacotherapy  
 \*giardia  
 \*parasitosis  
 \*plasmodium falciparum  
 \*typhoid fever  
 \*schistosomiasis  
 \*mebendazole  
 \*albendazole  
 \*chloroquine  
 \*clioquinol  
 \*quinine formate  
 \*tiabendazole  
 \*metronidazole  
 \*niridazole  
 quinine  
 diarrhea  
 malnutrition  
 tropic medicine

CN Quinoform

L94 ANSWER 90 OF 108 BIOSIS COPYRIGHT 1998 BIOSIS  
 AN 85:143013 BIOSIS  
 DN BR29:33009  
 TI IN-VITRO SUSCEPTIBILITY OF MYCOBACTERIA TO ANSAMYCIN.  
 AU HEIFETS L; LINDHOLM-LEVY P; ISEMAN M  
 CS NATL. JEWISH HOSP./RES. CENT., DENVER, COLO.  
 SO 85TH ANNUAL MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY, LAS VEGAS, NEV., USA, MAR. 3-7, 1985. ABSTR ANNU MEET AM SOC MICROBIOL 85 (0). 1985. 107. CODEN: ASMACK ISSN: 0094-8519  
 DT Conference  
 LA English  
 ST ABSTRACT MYCOBACTERIUM-AVUM MYCOBACTERIUM-INTRACELLULARE  
**MYCOBACTERIUM-TUBERCULOSIS HUMAN RIFAMPIN**  
 ANTIBACTERIAL-DRUG BACTERICIDAL BACTERIOSTATIC ACQUIRED  
**IMMUNE DEFICIENCY SYNDROME BACTEC RADIOMETRIC**  
 SYSTEM MINIMUM INHIBITORY CONCENTRATION  
 RN 13292-46-1 (RIFAMPIN)  
 51374-14-2 (ANSAMYCIN)  
 CC General Biology-Symposia, Transactions and Proceedings of Conferences, Congresses, Review Annuals 00520  
 Radiation-Radiation and Isotope Techniques 06504

Biochemical Studies-General 10060  
 Pathology, General and Miscellaneous-Necrosis 12510  
 Pathology, General and Miscellaneous-Therapy 12512  
 Pharmacology-Clinical Pharmacology \*22005  
 Physiology and Biochemistry of Bacteria 31000  
 Microbiological Apparatus, Methods and Media 32000  
 Immunology and Immunochemistry-Bacterial, Viral and Fungal 34504  
 Immunology and Immunochemistry-Immunopathology, Tissue Immunology \*34508  
 Medical and Clinical Microbiology-General; Methods and Techniques 36001  
 Medical and Clinical Microbiology-Bacteriology \*36002  
 Medical and Clinical Microbiology-Virology \*36006  
 Chemotherapy-Antibacterial Agents \*38504  
 BC Retroviridae-Oncovirinae 02244  
 Mycobacteriaceae 05822  
**Hominidae 86215**

L94 ANSWER 91 OF 108 HCAPLUS COPYRIGHT 1998 ACS  
 AN 1986:223818 HCAPLUS  
 DN 104:223818  
 TI Effect of heat on specific proteins in **human** milk  
 AU Lyster, Richard L. J.; Hunjan, Manjit; Hall, Eveline D.  
 CS Natl. Inst. Res. Dairy., Shinfield/Reading, RG2 9AT, UK  
 SO Nestle Nutr. Workshop Ser. (1984), 5(Hum. Milk Banking), 93-100  
 CODEN: NNWSDT; ISSN: 0742-2806  
 DT Journal  
 LA English  
 CC 17-8 (Food and Feed Chemistry)  
 AB **Human** milk samples heated at 62.5.degree. for 30 min reduced Escherichia coli counts to acceptable levels, denatured alk. phosphatase [9001-78-9] so that it remained a useful test for proper pasteurization (**Mycobacterium tuberculosis** is less heat-stable than is the enzyme), but partly degraded lactoferrin and serum IgA. Heating for 30 min at 57.degree. showed no loss of IgA on lactoferrin, adequate redn. of the E. coli count, but did not inactivate and thus minimized the usefulness of using alk. phosphatase as a test enzyme for proper pasteurization; lipase [9001-62-1] may be substituted as a test enzyme at this temp.  
 ST milk **human** pasteurization protein denaturation  
 IT **Escherichia coli**  
     (growth **inhibition** of, of **human** milk,  
     pasteurization method in relation to)  
 IT Enzymes  
 Lactoferrins  
 RL: PROC (Process)  
     (of **human** milk, heat denaturation of)  
 IT Immunoglobulins  
 RL: PROC (Process)  
     (A, of **human** milk, heat denaturation of)  
 IT Milk  
     (**human**, proteins of, heat denaturation of)  
 IT 9001-62-1 9001-78-9  
 RL: PROC (Process)  
     (of **human** milk, denaturation of, as index of proper  
     pasteurization)

L94 ANSWER 92 OF 108 BIOSIS COPYRIGHT 1998 BIOSIS  
 AN 84:256581 BIOSIS  
 DN BA77:89565  
 TI ANTI BACTERIAL ACTIVITY OF PALMITOYL TUBERACTINAMINE N AND DI-BETA  
     LYSYL CAPREOMYCIN IIA.  
 AU YAMADA T; YAMANOUCHI T; ONO Y; NAGATA A; WAKAMIYA T; TESHIMA T; SHIBA  
     T

CS RES. INST. FOR MICROBIAL DISEASES, OSAKA UNIV., 3-1 YAMADA-OKA, SUITA, OSAKA 565, JPN.  
 SO J ANTI BIOT (TOKYO) 36 (12). 1983 (RECD. 1984). 1729-1734. CODEN: JANTAJ ISSN: 0021-8820  
 LA English  
 AB Palmitoyltuberactinamine N (Pal-Tua N) and di-.beta.-lysylcapreomycin IIA (di-.beta.-Lys-Cpm IIA), synthetic derivatives of the antituberculous agent tuberactinomycin (Tum) and capreomycin (Cpm), respectively, were tested for antibacterial activity. Pal-Tua N inhibited tuberactinomycin-resistant *Mycobacterium smegmatis*, *Escherichia coli*, *Corynebacterium diphtheriae*, *Staphylococcus aureus* and *Streptococcus pyogenes*, and had no activity against *M. tuberculosis*. Di-.beta.-Lys-Cpm IIA inhibited the growth of laboratory-derived Tum-resistant *M. smegmatis* and *M. tuberculosis* as well as Tum-resistant *M. tuberculosis* from patients, with 1 exceptional case.  
 ST MYCOBACTERIUM-SMEGMATIS MYCOBACTERIUM-TUBERCULOSIS  
*ESCHERICHIA-COLI CORYNEBACTERIUM-DIPHTHERIAE STAPHYLOCOCCUS-AUREUS*  
*STREPTOCOCCUS-PYOGENES HUMAN TUBER ACTINOMYCIN CAPREOMYCIN*  
 ANTIBACTERIAL-DRUG  
 RN 11003-38-6 (CAPREOMYCIN)  
 11075-36-8 (TUBER ACTINOMYCIN)  
 CC Biochemical Studies-Proteins, Peptides and Amino Acids 10064  
 Pathology, General and Miscellaneous-Therapy 12512  
 Pharmacology-General \*22002  
 Physiology and Biochemistry of Bacteria 31000  
 Medical and Clinical Microbiology-Bacteriology \*36002  
 Chemotherapy-Antibacterial Agents \*38504  
 BC Enterobacteriaceae 04810  
 Micrococcaceae 05510  
 Streptococcaceae 05514  
 Coryneform Group of Bacteria 05814  
 Mycobacteriaceae 05822  
*Hominidae 86215*

L94 ANSWER 93 OF 108 BIOSIS COPYRIGHT 1998 BIOSIS DUPLICATE 11  
 AN 81:247662 BIOSIS  
 DN BA72:32646  
 TI **MALARIA THERAPY AND CANCER.** X  
 AU GREENTREE L B  
 CS 3111 EAST BROAD ST., COLUMBUS, OHIO.  
 SO MED HYPOTHESES 7 (1). 1981. 43-50. CODEN: MEHYDY ISSN: 0306-9877  
 LA English  
 AB **Malariatherapy** [using the Madagascar strain of *Plasmodium vivax*] merits a clinical trial as an adjuvant to conventional cancer therapy. This particular modality of treatment is a most potent stimulus of macrophage activity. These scavenger cells are widely believed to be an essential arm in the host's immune defenses against malignant disease, both as regards the processing of antigens and as killers of tumor cells. **Malariatherapy** was used to effectively treat some 16,000 patients with paretic neurosyphilis in 1 institution alone, before the advent of the penicillin age, and has proved to be a particularly safe modality of treatment.  
 ST HUMAN PLASMODIUM-VIVAX MADAGASCAR STRAIN MACROPHAGE IMMUNE DEFENSE  
 PENICILLIN ANTIINFECTIVE NEURO SYPHILIS THERAPY SAFETY  
 RN 1406-05-9 (PENICILLIN)  
 CC Cytology and Cytochemistry-Animal 02506  
 Biochemical Studies-General 10060  
 Pathology, General and Miscellaneous-Therapy 12512  
 Metabolism-General Metabolism; Metabolic Pathways 13002  
 Blood, Blood-Forming Organs and Body Fluids-Blood Cell Studies 15004  
 Blood, Blood-Forming Organs and Body Fluids-Lymphatic Tissue and Reticuloendothelial System \*15008

Nervous System-General; Methods 20501  
 Nervous System-Pathology \*20506  
 Pharmacology-Immunological Processes and Allergy \*22018  
 Neoplasms and Neoplastic Agents-Therapeutic Agents; Therapy \*24008  
 Immunology and Immunochemistry-General; Methods \*34502  
 Immunology and Immunochemistry-Immunopathology, Tissue Immunology \*34508  
 Immunology, Parasitological \*35000  
 Chemotherapy-General; Methods; Metabolism \*38502  
 Food and Industrial Microbiology-Food and Beverage Spoilage and Contamination \*39002  
 Parasitology-Medical \*60504  
 Invertebrata, Comparative and Experimental Morphology, Physiology and Pathology-Protozoa 64002  
 BC Spirochaetaceae 04510  
 Sporozoa 35400  
 Hominidae 86215

L94 ANSWER 94 OF 108 BIOSIS COPYRIGHT 1998 BIOSIS  
 AN 83:192595 BIOSIS  
 DN BA75:42595  
 TI INVESTIGATIONS ON THE BACTERIAL INTESTINAL FLORA IN CHILDREN INVADED WITH **ASCARIS-LUMBRICOIDES**.  
 AU ZAN T K; ESEVA Z  
 CS SCI. RES. INST. INFECT. PARASIT. DIS., SOFIA, BULG.  
 SO KHELMINTOLOGIYA 12 (0). 1981 (RECD. 1982). 31-35. CODEN: KHELDD  
 ISSN: 0324-1947  
 LA Bulgarian  
 AB There were 108 children aged 7-10 yr from a village in Southwestern Bulgaria investigated. Quantitative and qualitative investigations of the intestinal microflora as well as **parasitic** investigations of fecal samples before and a mo. after treatment with Decaris were carried out. The intensity of the invasion with *A. lumbricoides* among the investigated children was comparatively high (51.8%). Decaris is one of the medicines with a good curative effect (96%). No difference in the microbial number of the aerobic intestinal flora in children with ascaridiasis before and after treatment was established. The quantity of the anaerobic bifidobacteria in children with ascaridiasis was greater than in those without ascaridiasis. The difference was statistically significant. The number of the isolated enteropathogenic **Escherichia coli** in children with ascaridiasis before **treatment** was greater than in those without ascaridiasis. The difference was statistically significant. A decrease was observed in the number of the isolated **E. coli** after **treatment** of children with ascaridiasis. A difference in the quantity of the isolated enteropathogenic *E. coli* was not observed in children without ascaridiasis either before or after treatment. Thus, the treatment of the ascaridiasis probably should precede that of the intestinal infections in cases when combinations of *A. lumbricoides* and pathogenic intestinal bacteria occur.  
 ST BIFIDOBACTERIA ESCHERICHIA-COLI DECARIS ANTIPARASITIC-DRUG  
 SOUTHWESTERN BULGARIA  
 RN 16595-80-5 (DECARIS)  
 CC Mathematical Biology and Statistical Methods 04500  
 Social Biology; Human Ecology 05500  
 Biochemistry-Gases 10012  
 Pathology, General and Miscellaneous-Comparative 12503  
 Pathology, General and Miscellaneous-Therapy \*12512  
 Digestive System-General; Methods 14001  
 Digestive System-Physiology and Biochemistry \*14004  
 Digestive System-Pathology \*14006  
 Pharmacology-Clinical Pharmacology 22005

Pharmacology-Digestive System \*22014  
Pediatrics \*25000  
Physiology and Biochemistry of Bacteria 31000  
Medical and Clinical Microbiology-General; Methods and Techniques  
36001  
Medical and Clinical Microbiology-Bacteriology \*36002  
Chemotherapy-Antiparasitic Agents \*38510  
Parasitology-Medical \*60504  
Invertebrata, Comparative and Experimental Morphology, Physiology and  
Pathology-Aschelminthes 64016  
BC Bacteria-Unspecified 04000  
Enterobacteriaceae 04810  
Actinomycetaceae 05810  
Nematoda 51300  
**Hominidae 86215**

L94 ANSWER 95 OF 108 HCPLUS COPYRIGHT 1998 ACS  
AN 1981:10879 HCPLUS

AN 1981.10879 HOMLESS  
DN 94:10879

DN 94.10879  
TI Biologics

II Biological activity of a new class of lantamycins  
spiroperidylrifamycins  
All Sanfilippo, A.; Della Bruna, G.; Marsili, I.; Mo-

CS Res. Lab., Farmitalia Carlo Erba, Milan, Italy  
CS 5-1000-1 (1982) 22(10) 1193-8

SO J. Antibiot. (1980), 33(10), 1193-8

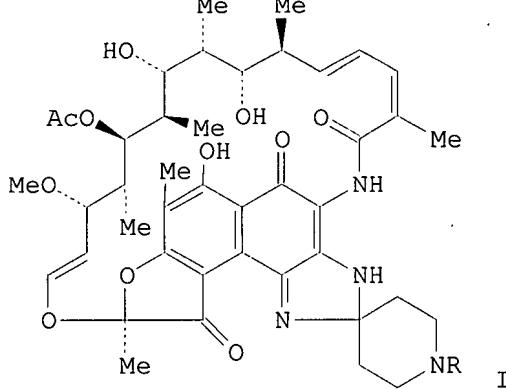
CODEN: JANTAJ; ISSN: 0021-8820

## DT Journal

## LA English

CC 1-3 (Pha)

GI



AB The biol. properties of spiro-piperidyl-rifamycins (I), a new class of rifamycin antibiotics, are described. In these derivs. the positions 3 and 4 have been incorporated into an imidazolyl ring bearing a spiro-piperidyl group N substituted with linear and branched aliph. chains. The in vitro antibacterial activity against *Staphylococcus aureus* and **Mycobacterium tuberculosis** increases with the no. of the carbon atoms in the linear side chain, whereas the **inhibitory** effect on **Escherichia coli** is lowered. The antibacterial activity is only marginally affected by branching of the side chain. In vivo (exptl. infections of **mice**), the optimal therapeutic activity against **M. tuberculosis** is shown by compds. bearing 3-5 carbon atoms as a linear or branched side chain; in comparison with rifampicin, the potency of these derivs. is 2-3 times higher. The finding is in a good agreement

with the exceptional tissue tropism, which seems to be a favorable property of this group of derivs.

ST spirospiperidyl rifamycin deriv antibiotic structure; structure activity spirospiperidyl rifamycin deriv

IT Antibiotics

(spirospiperidyl rifamycins as, structure in relation to)

IT Molecular structure-biological activity relationship  
(antibiotic, of spirospiperidyl rifamycins)

IT 6998-60-3D, spirospiperidyl derivs. 62295-71-0 71072-23-6  
71072-29-2 72544-08-2 72544-09-3 72544-14-0 72544-15-1  
72559-05-8 72559-06-9 72559-07-0 75903-10-5 75903-11-6  
75903-12-7 75903-13-8

RL: BAC (Biological activity or effector, except adverse); BIOL  
(Biological study)

(antibiotic activity of, structure in relation to)

L94 ANSWER 96 OF 108 HCAPLUS COPYRIGHT 1998 ACS

AN 1980:69323 HCAPLUS

DN 92:69323

TI Pyrrolo[3,2-d]pyrimidines as potential antitumor agents

AU Kravchenko, A. I.; Chernov, V. A.; Shcherbakova, L. I.; Filitis, L. N.; Pershin, G. N.; Sokolova, V. N.

CS Vses. Nauchno-Issled. Khim.-Farm. Inst., Moscow, USSR

SO Farmakol. Toksikol. (Moscow) (1979), 42(6), 659-65

CODEN: FATOAO; ISSN: 0014-8318

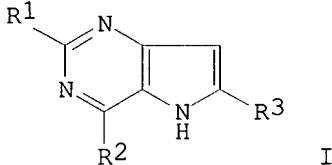
DT Journal

LA Russian

CC 1-3 (Pharmacodynamics)

Section cross-reference(s): 3

GI



AB Only 1 of the 44 pyrrolopyrimidines I tested, 2,6-dimethyl-4-sulfanilamidopyrrolo(3,2-d)pyrimidine [72549-78-1], showed marked **inhibitory** activity against **Escherichia coli** in vitro, having a minimal **inhibitory** concn. (MIC) of 1 .mu.g/mL. Eight of the compds. had MIC values .ltoreq.1 .mu.g/mL against Lactobacillus casei and 11 had similar MICs against **Mycobacterium tuberculosis** H37Rv. In addn. to showing high antibacterial activity, 6-methyl-4-mercaptop-2-phenylpyrrolo[3,2-d]pyrimidine [72168-74-2] also had marked antitumor activity against sarcoma 180 in **mice** and increased the life span of animals with leukemia L-1210.

ST pyrrolopyrimidine deriv bactericide antitumor

IT Bactericides, Disinfectants and Antiseptics

IT Neoplasm inhibitors

(pyrrolopyrimidines)

IT Molecular structure-biological activity relationship  
(bactericidal, of pyrrolopyrimidines)

IT Molecular structure-biological activity relationship  
(neoplasm-inhibiting, of pyrrolopyrimidines)

IT 272-50-4D, derivs. 41040-25-9 41040-27-1 41040-28-2  
41040-29-3 41040-39-5 52617-58-0 52617-59-1 52617-60-4  
52617-61-5 52617-62-6 52617-69-3 52617-72-8 52659-60-6  
52739-36-3 72168-68-4 72168-69-5 72168-70-8 72168-71-9

|            |            |            |            |            |
|------------|------------|------------|------------|------------|
| 72168-72-0 | 72168-73-1 | 72168-74-2 | 72549-60-1 | 72549-61-2 |
| 72549-62-3 | 72549-63-4 | 72549-64-5 | 72549-65-6 | 72549-66-7 |
| 72549-67-8 | 72549-68-9 | 72549-69-0 | 72549-70-3 | 72549-71-4 |
| 72549-72-5 | 72549-73-6 | 72549-74-7 | 72549-75-8 | 72549-76-9 |
| 72549-77-0 | 72549-78-1 | 72549-79-2 | 72549-80-5 | 72549-81-6 |
| 72561-16-1 |            |            |            |            |

RL: BIOL (Biological study)  
(bactericidal and neoplasm-inhibiting activity of, structure in relation to)

L94 ANSWER 97 OF 108 HCPLUS COPYRIGHT 1998 ACS

AN 1979:180801 HCAPLUS

DN 90:180801

TI Cefazedone: microbiological evaluation in comparison with cephalothin and cefazolin

AU Wahlig, H.; Dingeldein, E.; Mitsuhashi, S.; Kawabe, H.

CS Dep. Chemother., E. Merck, Darmstadt, Ger.

SO Arzneim.-Forsch. (1979), 29(2A), 369-78

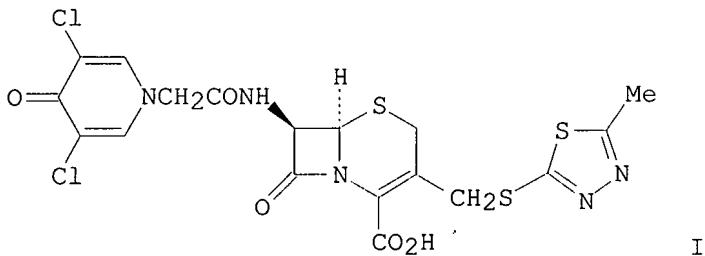
CODEN: ARZNAD; ISSN: 0004-4172

DT Journal

## LA English

CC 3-2 (Biochemical Interactions)

GI



AB In low concns., cefazedone Na (I Na) [63521-15-3] was active against a large no. of gram-pos. and gram-neg. organisms susceptible to other .beta.-lactam antibiotics. I was several times more potent than cefazolin Na [27164-46-1] and cephalothin Na [58-71-9] against *Staphylococcus aureus* and even more so against *Streptococcus pyogenes*. Also *enterococci* (*Streptococcus faecalis*), which are usually resistant to cephalosporins, were inhibited by 90% by I. The min. inhibitory concns. of I against gram-neg. pathogens were comparable to those of cefazolin. *Proteus mirabilis* strains were inhibited by only 70%. I acted bactericidally in low concns. with only small differences between the min. inhibitory and the min. bactericidal levels. The effects of inoculum size, pH, **human** serum, and different culture media on the I antibacterial activity were negligible. Max. activity was obsd. at pH 6.0. Stability in body fluids and buffer solns. were investigated at various temps. I could be stored for .gtoreq.8 wk without loss of activity at -30.degree. in **human** serum and urine as well as in phosphate buffer, pH 7.0. The rate of binding to serum protein was high (93-96%), but the effect of the addn. of serum on the antibacterial activity was not marked indicating that such binding is reversible. Development of resistance in vitro could be achieved in a similar way with I and cefazolin. There was a stepwise emergence and a slow increase in resistance in *Staphylococci* and a more rapid one in *Escherichia coli*. Although I was hydrolyzed by .beta.-lactamases, it was more stable against various crude enzymes than cefazolin and cephalothin.

ST cefazedone antibacterial activity; bactericide cefazedone;

ST cefazedone antibacterial activity; bactericide cefazedone;

IT cephalothin bactericide cefazedone; cefazolin bactericide cefazedone  
 Clostridium perfringens  
 Enterobacter  
**Escherichia coli**  
 Klebsiella  
**Mycobacterium tuberculosis**  
 Proteus  
 Pseudomonas aeruginosa  
 Serratia marcescens  
 Staphylococcus  
 Streptococcus  
 (cefazedone inhibition of)  
 IT 58-71-9 27164-46-1 63521-15-3  
 RL: BAC (Biological activity or effector, except adverse); BIOL  
 (Biological study)  
 (bactericidal activity of)

L94 ANSWER 98 OF 108 HCPLUS COPYRIGHT 1998 ACS  
 AN 1976:84140 HCPLUS  
 DN 84:84140  
 TI Tumor regression caused by endotoxins and mycobacterial fractions X  
 AU Ribi, Edgar E.; Granger, Donald L.; Milner, Kelsey C.; Strain, S.  
 Michael  
 CS Rocky Mt. Lab., Natl. Inst. Allergy Infect. Dis., Hamilton, Mont.,  
 USA  
 SO J. Natl. Cancer Inst. (1975), 55(5), 1253-7  
 CODEN: JNCIAM  
 DT Journal  
 LA English  
 CC 1-5 (Pharmacodynamics)  
 AB Oil drop preps. contg. trehalose mycolate (P3) (isolated from wax D  
 from **Mycobacterium tuberculosis** strain Aoyamia  
 B) and bacterial endotoxin produced cure rates of up to 90% in  
 guinea pigs with transplanted hepatocarcinoma.  
 Regression was faster than with live bacille Calmette Guerin and  
 older tumors could be treated successfully. The most effective  
 endotoxins were from rough strains of salmonellae, known as Re  
 mutants, which could not synthesize and attach the polysaccharide  
 portion of the endotoxin.  
 ST endotoxin trehalose mycolate neoplasm inhibition; Salmonella  
 endotoxin neoplasm inhibition  
 IT Toxins  
 RL: BIOL (Biological study)  
 (endo, neoplasm inhibition by trehalose mycolate and)  
 IT Neoplasm inhibitors  
 (endotoxins and trehalose mycolate)  
 IT **Escherichia coli**  
 Salmonella enteritidis  
 Salmonella minnesota  
 Salmonella typhimurium  
 (endotoxins of, neoplasm inhibition by trehalose  
 mycolate and)  
 IT .alpha.-D-Glucopyranoside, .alpha.-D-glucopyranosyl, esters with  
 mycolic acids  
 RL: BIOL (Biological study)  
 (neoplasm inhibition by endotoxins and)

L94 ANSWER 99 OF 108 MEDLINE DUPLICATE 12  
 AN 75074475 MEDLINE  
 DN 75074475  
 TI [Present applications of **malariaotherapy**.  
 Applications actuelles de la malariatherapie.  
 AU Lupascu G  
 SO BULLETIN OF THE WORLD HEALTH ORGANIZATION, (1974) 50 (3-4) 165-7.  
 KATHLEEN FULLER BT/LIBRARY 308-4290

CY Journal code: C80. ISSN: 0042-9686.  
 Switzerland  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA French  
 EM 197505  
 CT Check Tags: Human  
     Anopheles  
     Antimalarials: TU, therapeutic use  
     Drug Resistance  
     English Abstract  
**\*Hyperthermia, Induced**  
     Malaria: DT, drug therapy  
     Malaria: TH, therapy  
     Malaria: TM, transmission  
     Neurosyphilis: DT, drug therapy  
     Neurosyphilis: TH, therapy  
     Penicillins: TU, therapeutic use  
     Plasmodium  
     Treponema

L94 ANSWER 100 OF 108 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.  
 AN 74119494 EMBASE  
 TI Malaria in New York City. III. 1940 to 1959.  
 AU Harvey R.P.; Imperato P.J.; Shookhoff H.B.  
 CS City New York Dept. Hlth, New York, N.Y., United States  
 SO N.Y.ST.J.MED., (1973) 73/21 (2601-2605).  
 CODEN: NYSJAM  
 LA English  
 AB A change in the epidemiology of malaria in New York City occurred between 1940 and 1959. The major change was in the source of infection from indigenously acquired cases to imported cases. With this change, new age sex specific attack rates were recognized. Large scale importation of cases failed to produce an endemic outbreak of disease, and in the years between World War II and the Korean War, and the years between the Korean War and the Vietnam War, the virtual disappearance of malaria continued to be observed. In 1959 only 2 cases were reported in the entire city population. Drug addict associated malaria and **malariaotherapy** for the treatment of syphilis ceased during the 1940s. The use of quinine for dilution of heroin in New York City undoubtedly played an important role in the former. With the cessation of the Korean conflict, malaria cases became limited to travelers to endemic areas and the infrequent infection resulting from blood transfusion.  
 CC 005.02.12.00.00.  
     005.02.13.03.00.  
     005.02.14.00.00.  
     005.02.22.02.00.  
     017.03.07.00.00.  
 CT EMTAGS: infection (0310); epidemiology (0400); North America (0405); prevention (0165)  
 Medical Descriptors:  
     \*malaria  
     \*plasmodium vivax  
     \*plasmodium falciparum

L94 ANSWER 101 OF 108 HCPLUS COPYRIGHT 1998 ACS  
 AN 1972:535580 HCPLUS  
 DN 77:135580  
 TI Antibacterial activity of pyrimidine and pyrrolo (3,2-d)pyrimidine derivatives  
 AU Pershin, G. N.; Sherbakova, L. I.; Zykova, T. N.; Sokolova, V. N.  
 CS Vses. Nauchno-Issled. Khim.-Farm. Inst. im. Ordzhonikidze, Moscow,  
     USSR  
 SO Farmakol. Toksikol. (Moscow) (1972), 35(4), 466-71  
 KATHLEEN FULLER BT/LIBRARY 308-4290

DT CODEN: FATOAO  
 LA Russian  
 CC 3-2 (Biochemical Interactions)  
 AB Most of the 85 pyrimidine and pyrrolopyrimidine derivs. studied were bacteriostatic toward **Mycobacterium tuberculosis**, 43 were bacteriostatic toward *Lactobacillus casei*, and none were active against *Escherichia coli*. 6-Chloro-N-[2-(1-cyclohexen-1-yl)ethyl]-5-(2-propen-1-yl)-4-pyrimidinamine (I) [19674-87-4], 7-(butylthio)-2,5-dimethyl-1H-pyrrolo[3,2-d]pyrimidine (II) [36557-26-3], and 6 other compds. bacteriostatic toward **M. tuberculosis**, after administration to tuberculous mice, had no effect on the disease.  
 ST pyrimidine deriv bacteria inhibition; pyrrolopyrimidine deriv bacteria inhibition; tuberculosis inhibition pyrimidine deriv  
 IT Bactericides, Disinfectants and Antiseptics (pyrimidine and pyrrolopyrimidine derivs. as)  
 IT **Escherichia coli**  
 Lactobacillus casei  
**Mycobacterium tuberculosis** (pyrimidine and pyrrolopyrimidine derivs. inhibition of)  
 IT 5H-Pyrrolo[3,2-d]pyrimidine, derivs. Pyrimidine, derivs.  
 RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study) (bactericidal activity of)  
 IT 19674-87-4 36557-26-3  
 RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study) (bactericidal activity of)

L94 ANSWER 102 OF 108 BIOSIS COPYRIGHT 1998 BIOSIS  
 AN 72:190109 BIOSIS  
 DN BA54:20103  
 TI THE COURSE OF THE FLUORESCENT ANTIBODY LEVEL DURING HUMAN MALARIA INDUCED BY **MALARIO THERAPY** WITH PLASMODIUM-VIVAX.  
 AU GARIN J P; AMBROISE-THOMAS P; KIEN TRUONG T; SALIOU P  
 SO BULL W H O 44 (5). 1971 689-699. CODEN: BWHA06 ISSN: 0366-4996  
 LA Unavailable  
 ST IMMUNO GLOBULINS  
 CC Biochemical Studies-Proteins, Peptides and Amino Acids 10064  
 Movement 12100  
 Pathology, General and Miscellaneous-Diagnostic 12504  
 Pathology, General and Miscellaneous-Therapy \*12512  
 Metabolism-Proteins, Peptides and Amino Acids \*13012  
 Blood, Blood-Forming Organs and Body Fluids-Blood and Lymph Studies 15002  
 Blood, Blood-Forming Organs and Body Fluids-Blood Cell Studies 15004  
 Blood, Blood-Forming Organs and Body Fluids-Blood, Lymphatic and Reticuloendothelial Pathologies \*15006  
 Immunology and Immunochemistry-General; Methods 34502  
 Immunology, Parasitological \*35000  
 Medical and Clinical Microbiology-Serodiagnosis \*36504  
 Parasitology-Medical \*60504  
 BC Sporozoa 35400  
 Hominidae 86215

L94 ANSWER 103 OF 108 HCPLUS COPYRIGHT 1998 ACS  
 AN 1971:84343 HCPLUS  
 DN 74:84343  
 TI Anti-bacterial activity of unguic acid  
 AU Leikola, Erkki; Teppo, Anna M.; Vilppula, H.  
 CS Res. Dep., Orion-Yhtyma Oy, Helsinki, Finland

SO Ann. Med. Exp. Biol. Fenn. (1970), 48(4), 234-7  
 CODEN: AMEBA7  
 DT Journal  
 LA English  
 CC 8 (Microbial Biochemistry)  
 AB Ungulic acid inhibited the growth of *Streptococcus faecalis* and *Staphylococcus aureus* in concns. of 1.6-2.3mM, while *Pseudomonas aeruginosa*, *Klebsiella pneumoniae*, and *Proteus mirabilis* were inhibited by concns. of 7.8mM. Ungulic acid did not inhibit **Escherichia coli**. Ungulic acid also had bacteriostatic activity against **Mycobacterium tuberculosis**. The min. inhibitory concn. of ungelic acid in vitro was compared to the concn. of ungelic acid in normal human epidermis.  
 ST ungelic acid antibacterial activity; antibacterial activity ungelic acid  
 IT Antibiotics, biological studies (from animals, ungelic acid as)  
 IT Ungelic acid  
 RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study) (bactericidal activity of)

L94 ANSWER 104 OF 108 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 67-06204H [01] WPIDS  
 CR 66-13596F [00]  
 TI 2-Substd. 5-nitrofurans antibiotics.  
 DC B03 C02  
 PA (PHAA) PHARMACIA AB  
 CYC 2  
 PI CA 811726 A (6801)\*  
 NL 138126 B (7310)  
 PRAI SE 63-2193 630228; SE 64-1845 640215  
 AB CA 811726 A UPAB: 930831  
 Cpd. tautomeric forms and acid addition salts. R1, R2, R3 and R4 = H, alkyl (one or two only) or -COR6 (one only) where R6 = H or (1-3C) alkyl opt. substd. with halogen R5 = H, or may form a double bonds with R1, R2 or R4  
 Antibiotics.  
 Shown to be effective against **M. tuberculosis**, *Staphylococcus aureus*, *E. coli*, *Salmonella* and *Shigella*. **Mice**, treated orally with 50 mg./kg. body wt., were still excreting active cpds. in urine, up to 6 hrs. after treatment 3-amino-4-methyl-5-(5-nitro-2-furyl)-1:2:4-triazole  
 FS CPI  
 FA AB  
 MC CPI: C07-A01; C07-D13; C12-A01; C12-A04

L94 ANSWER 105 OF 108 MEDLINE  
 AN 69064310 MEDLINE  
 DN 69064310  
 TI [A new technic to control **malariaotherapy** in syphilogenic psychoses].  
 Uma nova tecnica de controle da malarioterapia nas psicoses sifiligenicas.  
 AU Garcia J A; Silva J R; Lopes P F  
 SO REVISTA BRASILEIRA DE MEDICINA, (1967 Nov) 24 (11) 902-6.  
 Journal code: RJ5. ISSN: 0034-7264.  
 CY Brazil  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA Portuguese

EM 196903  
 CT Check Tags: Human  
 Brazil  
 \*Delirium, Dementia, Amnestic, Cognitive Disorders: ET, etiology  
 \*Hyperthermia, Induced  
 Penicillins: TU, therapeutic use  
 Plasmodium: IM, immunology  
 \*Syphilis: CO, complications  
 Syphilis: EP, epidemiology  
 United States

L94 ANSWER 106 OF 108 HCAPLUS COPYRIGHT 1998 ACS  
 AN 1967:114128 HCAPLUS  
 DN 66:114128  
 TI Specificity of resistance to tuberculosis and to salmonellosis  
 stimulated in **mice** by oil-treated cell walls  
 AU Ribi, Edgar; Brehmer, Werner; Milner, Kelsey C.  
 CS Natl. Insts. of Health, Rocky Mt. Lab., Hamilton, Mont., USA  
 SO Proc. Soc. Exp. Biol. Med. (1967), 124(2), 408-13  
 CODEN: PSEBAA  
 DT Journal  
 LA English  
 CC 13 (Immunochemistry)  
 AB When **mice** were vaccinated s.c. with untreated or mineral  
 oil (0.48 ml./100 mg. cell wall) treated preps. of dried cell walls  
 (0.4-10 .mu.g.) from *Salmonella enteritidis* and challenged 14 days  
 later with viable *S. enteritidis* (1 .times. 10<sup>7</sup> plate count units,  
 i.p.), they were protected 4 days after challenge in a dose-graded  
 response; 90% of the unvaccinated **mice** died. **Mice**  
 receiving endotoxin (0.5-50 .mu.g.) from *Citrobacter [Escherichia]*  
*freundii* were not significantly protected. **Mice** given  
 oil-treated and nontreated *E. coli*  
 cell wall preps. (0.4-100 .mu.g., i.v.) and challenged i.p. 24 hrs.  
 later with 8 .times. 10<sup>7</sup> cells of *S. typhosa* were protected; 75-100%  
 of the controls died within 3 days. The cell walls of BCG,  
 oil-treated or not, were not protective. I.p. vaccinations of  
 oil-treated cell wall preps. from *S. typhimurium* (100 .mu.g.) and  
*Brucella abortus* (1000 .mu.g.) protected **mice** more against  
 i.v. challenge 24 hrs. later with 200 .times. 10<sup>6</sup>  
**Mycobacterium tuberculosis** H37RV cells than the  
 oil-treated cell wall preps. from *Listeria monocytogenes* (1000  
 .mu.g.) and BCG (500 .mu.g.), and the protection correlated roughly  
 with the endotoxin content. Oil-treated cell wall preps. (100-1000  
 .mu.g.) from *S. typhimurium*, *B. abortus*, **M.**  
**tuberculosis** H37RV, *L. monocytogenes*, and BCG increased the  
 survival time in **mice** challenged i.v. with 4 .times. 10<sup>7</sup>  
 cells of H37RV 30 days after the i.p. vaccination, and the BCG cell  
 wall prep. was at least as effective as the endotoxin-contg.  
 vaccines, and much more so than the cell walls of *L. monocytogenes*.  
**Mice** treated i.v. with oil-treated cell walls (100-500  
 .mu.g.) from BCG and challenged 4 weeks later with virulent tubercle  
 bacilli by aerosol were protected, while none were protected when  
 given oil-treated cell walls (100-1000 .mu.g.) from *S. typhimurium*,  
*B. abortus*, or *L. monocytogenes*. Coating with oil, which was  
 previously reported (CA 65, 20659d) to be essential to render cell  
 walls of BCG protective to **mice** against challenge with  
 tubercle bacilli by aerosol, does not affect the specificity of  
 reactions conditioned by cell walls in this and other systems. 17  
 references.  
 ST VACCINES CELL WALLS; CELL WALLS VACCINES; MINERAL OIL ANTIGENS;  
 ANTIGENS MINERAL OIL; OIL MINERAL ANTIGENS; BACTERIAL PATHOGENS OIL;  
 PATHOGENS BACTERIAL OIL  
 IT Brucella  
 (abortus, tuberculosis resistance after injection of oil-treated  
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cell walls of)  
 IT Listeria  
 (monocytogenes, tuberculosis resistance after injection of  
 oil-treated cell walls of)  
 IT Salmonella  
 (typhi and typhimurium, vaccine for, oil-treated cell walls as)  
 IT Tuberculosis  
 (vaccine for, oil-treated cell walls as)

L94 ANSWER 107 OF 108 HCAPLUS COPYRIGHT 1998 ACS  
 AN 1968:76737 HCAPLUS  
 DN 68:76737  
 TI In vitro and in vivo chemotherapeutic properties of the antibiotic  
 myxin  
 AU Grunberg, Emanuel; Berger, Julius; Beskid, George; Cleeland, Roy;  
 Prince, Herbert N.; Titsworth, Edith  
 CS Hoffmann-La Roche Inc., Nutley, N. J., USA  
 SO Chemotherapia (1967), 12(5), 272-81  
 CODEN: CMTRAG  
 DT Journal  
 LA English  
 CC 15 (Pharmacodynamics)  
 AB Myxin (6-methoxy-1-phenazinol 5,10-dioxide) (I) is an antibiotic  
 that displays a broad in vitro spectrum including activity against  
 gram-pos. and gram-neg. bacteria, **Mycobacterium**  
**tuberculosis**, Mycoplasma gallinarum, Candida albicans,  
 filamentous fungi, dermatophytes, helminths, and protozoa. The in  
 vitro antibacterial effect could be partially overcome by the addn.  
 of cysteine or Na thioglycolate to the growth medium. I was  
 cytotoxic for **monkey** kidney cells. I was not absorbed  
 when administered by the oral or s.c. routes to **mice**. I  
 was active when administered i.p. to **mice** infected  
 systematically with Streptococcus pyogenes, Diplococcus pneumoniae,  
 Staphylococcus aureus, Escherichia coli, and Neisseria meningitidis  
 as well as against **mice** implanted with sarcoma 180, but  
 was without effect when tested by this same route against fungi,  
 viruses, and Ehrlich carcinoma. When tested for local  
 chemotherapeutic effects against s.c. bacterial infections, I  
 exerted marked activity against Streptococcus pyogenes, S. aureus,  
 and Proteus vulgaris, moderate activity against E. coli, and a  
 slight effect in the case of Pseudomonas aeruginosa. The antibiotic  
 also exerted a marked effect against a s.c. Trichomonas vaginalis  
 infection in **mice** when administered by infiltration as  
 well as a slight effect against the s.c. C. albicans infection in a  
 similar exptl. model. I administered orally showed slight to  
 moderate anthelmintic activity against Syphacia obvelata and  
 Hymenolepis nana.  
 ST MYXIN ACTION SPECTRUM; TRICHOMONAS MYXIN; CANDIDA MYXIN; PROTOZOA  
 MYXIN; BACTERIA MYXIN; DERMATOPHYTES MYXIN; HELMINTHS MYXIN; FUNGI  
 MYXIN  
 IT Staphylococcus  
 (aureus, infection with, myxin in treatment of)  
 IT **Escherichia coli**  
 (infection with, myxin in **treatment** of)  
 IT Neisseria  
 (meningitidis, infection with, myxin in treatment of)  
 IT Anthelmintics  
 Neoplasm inhibitors  
 Antibiotics, biological studies  
 (myxin as)  
 IT Diplococcus  
 (pneumoniae, infection with, myxin in treatment of)  
 IT **Streptococcus**  
 (pyogenes, infection with, myxin in treatment of)

IT Trichomonas  
(vaginalis, infection with, myxin in treatment of)  
IT Proteus  
(vulgaris, infection with, myxin in treatment of)  
IT 13925-12-7  
RL: BAC (Biological activity or effector, except adverse); BIOL  
(Biological study)  
(antibiotic activity of)  
IT 52-90-4, biological studies  
RL: BAC (Biological activity or effector, except adverse); BIOL  
(Biological study)  
(inhibition by antibiotic activity of myxin by)

L94 ANSWER 108 OF 108 MEDLINE  
AN 68049720 MEDLINE  
DN 68049720  
TI [Notes on the practice of **malariaotherapy**].  
Note sulla pratica della malarioterapia.  
AU Marotta G  
SO RIVISTA DI MALARIOLOGIA, (1967 Jun) 46 (1) 23-36.  
Journal code: TN5.  
CY Italy  
DT Journal; Article; (JOURNAL ARTICLE)  
LA Italian  
EM 196802  
CT Check Tags: Human  
Antimalarials: TU, therapeutic use  
Arteriosclerosis: TH, therapy  
**\*Hyperthermia, Induced**  
**Hyperthermia, Induced: AE, adverse effects**  
Malaria: DT, drug therapy  
**\*Neurosyphilis: TH, therapy**  
Paralysis: TH, therapy  
Thromboangiitis Obliterans: TH, therapy  
Vascular Diseases: TH, therapy

patients well tolerated the non-invasive WBH as well as the high dose BC supplementation. Apart from one patient who died after 4 months, all the others underwent an HIV burden diminution, clinical improvement and amelioration of laboratory data, along with an subjective improvement of their life quality. With reference to control groups, namely (a) only WBH applied with extracorporeal procedure to 31 AIDS patients, and (b) only BC supplementation at high dosage applied to 64 ARC patients, the combined physical and BC supplemental treatments clearly showed a better and longer lasting response.

CT Check Tags: Female; Human; Male  
**Acquired Immunodeficiency Syndrome: DT, drug therapy**  
**\*Acquired Immunodeficiency Syndrome: TH, therapy**  
 Adult  
 Antioxidants: TU, therapeutic use  
 AIDS-Related Complex: TH, therapy  
**\*Carotene: TU, therapeutic use**  
**\*Food, Fortified**  
**\*Hyperthermia, Induced**  
 RN 36-88-4 (Carotene); 7235-40-7 (Beta Carotene)  
 CN 0 (Antioxidants)

L94 ANSWER 35 OF 108 MEDLINE  
 AN 95396279 MEDLINE  
 DN 95396279  
 TI Hyperthermic therapy for HIV infection.  
 AU Owens S D; Gasper P W  
 CS Department of Pathology, College of Veterinary and Biomedical Sciences, Colorado State University, Ft Collins 80523, USA.  
 SO MEDICAL HYPOTHESES, (1995 Apr) 44 (4) 235-42. Ref: 57  
 Journal code: MOM. ISSN: 0306-9877.  
 CY ENGLAND: United Kingdom  
 DT Journal; Article; (JOURNAL ARTICLE)  
 General Review; (REVIEW)  
 (REVIEW, TUTORIAL)  
 LA English  
 FS Priority Journals  
 EM 199512  
 AB The objective of this paper is to review what is known about the antiviral effects of fever and to highlight the scientific evidence supporting the hypothesis that hyperthermic therapy may prove to be a beneficial treatment modality for persons infected with HIV. Our hyperthermic hypothesis is based upon the mutant escape, quasispecies theory of HIV antigenic diversity. We propose that, if initiated during the asymptomatic stage of HIV infection, hyperthermia may prove to decrease the number of mutant HIV strains arising due to evolutionary pressures created by the patient's immune system, with a resultant prolongation of the asymptomatic period of infection. A review of the literature from three areas of investigation: the immune response to fever, heat as a tumor killing agent, and preliminary studies with fever and retroviral infections, strongly suggests that there is a good scientific basis for the use of hyperthermic therapy in a multimodal treatment approach to HIV infection.

CT Check Tags: Animal; Human; Support, Non-U.S. Gov't  
**Acquired Immunodeficiency Syndrome: PP, physiopathology**  
**\*Acquired Immunodeficiency Syndrome: TH, therapy**  
 Evolution  
**\*Fever: PP, physiopathology**  
**\*Hyperthermia, Induced**  
 HIV: GD, growth & development  
**\*HIV: PH, physiology**  
 HIV: PY, pathogenicity  
**HIV Infections: PP, physiopathology**

\*HIV Infections: TH, therapy  
 Models, Biological  
 Neoplasms: TH, therapy  
 Neoplasms, Experimental: TH, therapy  
 Retroviridae Infections: PP, physiopathology  
 Retroviridae Infections: TH, therapy

L94 ANSWER 36 OF 108 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.  
 AN 95098290 EMBASE  
 TI Anaemia and **Plasmodium falciparum** infections  
 among young children in an holoendemic area, Bagamoyo, Tanzania.  
 AU Premji Z.; Hamisi Y.; Shiff C.; Minjas J.; Lubega P.; Makwaya C.  
 CS Bagamoyo Bed Net Project, PO Box 65011, Dar es Salaam, Tanzania,  
 United Republic of  
 SO Acta Tropica, (1995) 59/1 (55-64).  
 ISSN: 0001-706X CODEN: ACTRAQ  
 CY Netherlands  
 DT Journal  
 FS 004 Microbiology  
 007 Pediatrics and Pediatric Surgery  
 017 Public Health, Social Medicine and Epidemiology  
 LA English  
 SL English  
 AB Although the aetiology of anaemia in tropical areas is  
 multifactorial, **Plasmodium falciparum** malaria is  
 commonly associated with anaemia in children living in holoendemic  
 malaria areas. Such an association was examined in a population  
 based study of 338 children 6 to 40 months of age living in the  
 Bagamoyo area of Tanzania. Stepwise regression analysis showed that  
 fever and **parasitaemia** were effective in predicting  
 anaemia and that the anaemic condition was age dependent. The  
 majority of the children were iron deficient, followed by  
 normochromic macrocytic anaemias. There was strong evidence in this  
 age group that the anaemia was associated with malaria and not  
 geohelminth infection. The importance of malaria and anaemia as a  
 cause of childhood morbidity in Africa is discussed. This condition  
 has taken on new significance with the realization that blood  
 transfusions commonly used to **treat** severe anaemia are a  
 major vehicle for Human **Immunodeficiency Virus** (**HIV**) transmission.  
 CT EMTAGS: **etiology** (0135); **epidemiology** (0400);  
 invertebrate (0723); protozoon (0751); infection (0310); therapy  
 (0160); africa (0403); africa south of the sahara (4032); mammal  
 (0738); **human** (0888); major clinical study (0150); infant  
 (0014); child (0022); article (0060)  
 Medical Descriptors:  
 \*anemia: ET, etiology  
 \*anemia: EP, epidemiology  
 \***plasmodium falciparum**  
 \*malaria falciparum: EP, epidemiology  
 \*childhood disease: ET, etiology  
 \*childhood disease: EP, epidemiology  
 \*blood transfusion  
 population research  
 tanzania  
 morbidity  
 africa  
**human**  
 major clinical study  
 infant  
 child  
 article

L94 ANSWER 37 OF 108 MEDLINE  
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AN 96092654 MEDLINE  
 DN 96092654  
 TI Mechanism of the effect of thermotherapy as applied to AIDS.  
 AU Moreira M B  
 SO MEDICAL HYPOTHESES, (1995 Jul) 45 (1) 5-6.  
 Journal code: MOM. ISSN: 0306-9877.  
 CY ENGLAND: United Kingdom  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199603  
 AB Artificially induced thermal intermittence using thermogenic agents was utilized to treat AIDS patients in an attempt to make an analogy with the sterilization process by tyndallization employed in laboratories. It is known that micro-organisms are more sensitive to discontinuous than to constant heat. The author believes that the AIDS virus may be either destroyed or weakened using this method which may also provoke an immune stimulus over the body's system of defense, especially over the bone marrow, with the consequent increase of the indexes of lymphocins, opsonins and hematogenesis.  
 CT Check Tags: Comparative Study; Human  
**\*Acquired Immunodeficiency Syndrome: TH, therapy**  
 Heat  
**\*Hyperthermia, Induced**  
 Neoplasms: TH, therapy  
 Sterilization: MT, methods

L94 ANSWER 38 OF 108 HCPLUS COPYRIGHT 1998 ACS  
 AN 1995:309101 HCPLUS  
 DN 122:64331  
 TI Method for treating neurological disorders using administration to cerebrospinal fluid with therapeutic dispersion allowing persistence in cerebro-ventricular space  
 IN Kim, Sinil; Howell, Stephen B.  
 PA Depotech Corp., USA  
 SO PCT Int. Appl., 43 pp.  
 CODEN: PIXXD2  
 PI WO 9426250 A1 941124  
 DS W: CA, JP  
 AI WO 93-US4645 930514  
 DT Patent  
 LA English  
 IC ICM A61K009-127  
 CC 63-5 (Pharmaceuticals)  
 AB A method is disclosed for ameliorating a neurol. disorder (tumor, virus infection, etc.) in a **human** by administration to the cerebrospinal fluid (CSF) of a therapeutic agent in a dispersion system which allows the therapeutic agent to persist in the cerebro-ventricular space. Prodn. of a synthetic membrane vesicle having multiple nonconcentric chambers contg. ara-C which are bounded by a single bilayer membrane is described. The ara-C prepn. was used in intrathecal and intraventricular treatment with patients having histol. proven cancer and evidence of neoplastic meningitis. Pharmacokinetic data, toxicity data, and cytol. response are included.  
 ST neurol disorder therapeutic dispersion cerebrospinal fluid; tumor neurol therapeutic dispersion cerebrospinal fluid; cerebroventricular space cerebrospinal fluid neurol therapeutic  
 IT Polymers, biological studies  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (matrix; neurol. disorder treatment using administration to cerebrospinal fluid with therapeutic dispersion allowing persistence in cerebro-ventricular space)  
 IT Bactericides, Disinfectants, and Antiseptics

Enterobacter  
**Escherichia coli**  
 Haemophilus influenzae  
 Klebsiella  
 Listeria monocytogenes  
**Mycobacterium tuberculosis**  
 Neisseria meningitidis  
 Proteus (bacterium)  
 Pseudomonas aeruginosa  
 Staphylococcus aureus  
 Streptococcus pneumoniae  
     (neurol. bacteria infection **treatment** using  
     administration to cerebrospinal fluid with therapeutic dispersion  
     allowing persistence in cerebro-ventricular space)

IT Cell cycle  
     (neurol. disorder treatment using administration to cerebrospinal  
     fluid with cell cycle phase-specific therapeutic dispersion  
     allowing persistence in cerebro-ventricular space)

IT Anti-infective agents  
 Autoimmune disease  
 Cerebrospinal fluid  
 Eukaryote  
 Neoplasm inhibitors  
 Nervous system agents  
 Prokaryote  
     (neurol. disorder treatment using administration to cerebrospinal  
     fluid with therapeutic dispersion allowing persistence in  
     cerebro-ventricular space)

IT Antibodies  
 Glycolipids  
 Carbohydrates and Sugars, biological studies  
 Proteins, biological studies  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
     (neurol. disorder treatment using administration to cerebrospinal  
     fluid with therapeutic dispersion allowing persistence in  
     cerebro-ventricular space)

IT Blastomycetes  
 Candida  
 Coccidioides immitis  
 Cryptococcus (fungus)  
 Fungicides and Fungistats  
 Histoplasma  
 Nocardia  
     (neurol. fungus infection treatment using administration to  
     cerebrospinal fluid with therapeutic dispersion allowing  
     persistence in cerebro-ventricular space)

IT Metabolism  
     (neurol. metabolic dysfunction treatment using administration to  
     cerebrospinal fluid with therapeutic dispersion allowing  
     persistence in cerebro-ventricular space)

IT Virucides and Virustats  
     (neurol. virus infection treatment using administration to  
     cerebrospinal fluid with therapeutic dispersion allowing  
     persistence in cerebro-ventricular space)

IT Drug interactions  
     (oral dexamethasone redn. of toxicity of ara-C dispersion  
     intrathecal and intraventricular treatment in cancer patients  
     with neoplastic meningitis)

IT Membranes  
     (synthetic, vesicles; neurol. disorder treatment using  
     administration to cerebrospinal fluid with therapeutic dispersion  
     allowing persistence in cerebro-ventricular space)

IT Interphase, biological  
     (S-phase, neurol. disorder treatment using administration to

LA German  
 EM 198907  
 CT Check Tags: Female; Human; Male  
**\*Acquired Immunodeficiency Syndrome: CO, complications**  
 Adult  
 \*Anus Diseases: CO, complications  
 Combined Modality Therapy  
 Condylomata Acuminata: CO, complications  
 Condylomata Acuminata: SU, surgery  
**Diathermy**  
 English Abstract  
 Hemorrhoids: CO, complications  
 Hemorrhoids: TH, therapy  
 Middle Age  
 \*Rectal Diseases: CO, complications  
 Rectal Fistula: CO, complications  
 Rectal Fistula: TH, therapy

L94 ANSWER 82 OF 108 MEDLINE  
 AN 89096588 MEDLINE  
 DN 89096588  
 TI An approach to AIDS therapy using hyperthermia and membrane modification.  
 AU Yatvin M B  
 CS University of Wisconsin Medical School, Madison 53706.  
 SO MEDICAL HYPOTHESES, (1988 Nov) 27 (3) 163-5. Ref: 31  
 Journal code: MOM. ISSN: 0306-9877.  
 CY ENGLAND: United Kingdom  
 DT Journal; Article; (JOURNAL ARTICLE)  
 General Review; (REVIEW)  
 (REVIEW, TUTORIAL)  
 LA English  
 FS Priority Journals  
 EM 198904  
 AB Altering the biophysical characteristics of cell membranes by diet and membrane perturbing agents markedly influences thermosensitivity of cells. Likewise, manipulation of viral envelopes either by altering their lipid composition by diet or by the use of agents that perturb the lipid envelope influence infectivity of enveloped viruses and the progression of viral disease. The use of hyperthermia and envelope modification as a combined approach to treat AIDS has until now neither been suggested nor attempted. On the basis of my previous work and a review of the literature, I theorize that the combination of hyperthermia with procedures designed to alter the viral envelope will likely result in an increased viral sensitivity and be useful clinically for treatment of patients with enveloped viral diseases such as AIDS.  
 CT Check Tags: Human  
**\*Acquired Immunodeficiency Syndrome: TH, therapy**  
 Butylated Hydroxytoluene: TU, therapeutic use  
**\*Hyperthermia, Induced**  
 HIV: ME, metabolism  
 Membrane Fluidity  
 Membrane Lipids: ME, metabolism  
 RN 128-37-0 (Butylated Hydroxytoluene)  
 CN 0 (Membrane Lipids)

L94 ANSWER 83 OF 108 EMBASE COPYRIGHT 1998 ELSEVIER SCI. B.V.  
 AN 87135493 EMBASE  
 TI Use of pyrimethamine-sulfadoxine (Fansidar) in prophylaxis against chloroquine-resistant **plasmodium falciparum** and **Pneumocystis carinii**.  
 AU Pearson R.D.; Hewlett E.L.  
 CS Division of Geographic Medicine, Department of Medicine, University

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